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HARVARD UNIVERSITY



**STUDENTS' ASTRONOMICAL
LABORATORY**

A N N A L S

OF THE

ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE.

VOL. VI.

1859-60.

PRINTED FROM FUNDS RESULTING FROM THE WILL OF

JOSIAH QUINCY, JUN.,

WHO DIED IN APRIL, 1778,

LEAVING A NAME INSEPARABLY CONNECTED WITH THE HISTORY OF THE AMERICAN REVOLUTION.

UNIVERSITY PRESS, CAMBRIDGE:

WELCH, BIGELOW, & CO.,

1872.

R E S U L T S
OF
ASTRONOMICAL OBSERVATIONS

MADE AT
THE OBSERVATORY OF HARVARD COLLEGE,

UNDER THE DIRECTION OF
WILLIAM CRANCH BOND, A. M.,
FELLOW OF THE AMERICAN ACADEMY OF ARTS AND SCIENCES, MEMBER OF THE AMERICAN PHILOSOPHICAL SOCIETY
OF PHILADELPHIA, ASSOCIATE OF THE ROYAL ASTRONOMICAL SOCIETY OF LONDON, CORRESPONDING
MEMBER OF THE INSTITUTE OF FRANCE, THE PHILOMATIC SOCIETY OF PARIS, AND
THE SOCIETY OF NATURAL SCIENCES AT CHATELAIN, ETC., ETC.

GEORGE PHILLIPS BOND, A. M., ASSISTANT.

ZONE CATALOGUE OF 6100 STARS.

SITUATED BETWEEN
0° 40' AND 1° 0' NORTH DECLINATION,

OBSERVED DURING THE YEARS

1859-60.

UNIVERSITY PRESS, CAMBRIDGE:
WELCH, BIGELOW, & CO.
1872.

P R E F A C E.

Two series of Zone Observations made with the large equatorial telescope of this Observatory have already been published in its Annals. Volume I., Part II., contains a catalogue of 5500 stars so observed; Volume II., Part II., one of 4484 stars. The present volume contains the places of 6100 stars between $0^{\circ} 40'$ and $1^{\circ} 0'$ north declination.

The Zone Observations now published were made and reduced in the same manner as those printed in Volume II., Part II., and nothing remains to be added to the explanations of the work which have been given already. The small tables following each zone in the previously published series, and giving its correction and equations of condition, have here been omitted as superfluous.

The work of observing Zones was continued upon the same system as before during the years 1861 to 1864, but the series is incomplete, and the reductions of such zones as were observed have not been computed. It is probable, therefore, considering the extent and importance of the other work since undertaken here, that it will not be judicious to attempt the publication of this fourth set of Zone Observations, or of the transit observations which were perhaps intended by Professor Bond to form the second part of Volume IV. of the Annals of this Observatory. The present volume, with Volume VII., which is issued at the same time, may accordingly be regarded as completing the publication of the astronomical observations made here under the direction of Professors W. C. Bond and G. P. Bond.

JOSEPH WINLOCK,

Director of the Observatory of Harvard College.

CAMBRIDGE, October 17, 1871.

ZONE OBSERVATIONS.

OBSERVATORY OF HARVARD COLLEGE.

1859-60.

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 117.				ZONE 118.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 117.	Zone 118.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
1	7	9 42 59.6	63.4	59.50	+0.52	9 42 59.5	63.5	59.50	+0.50	9 43 0.02	0.00	+0.02
2	13	43 38.2	42.2	38.20	0.52	43 38.1	42.2	38.15	0.50	43 38.72	38.65	+0.07
3	12	43 57.8	61.9	57.85	0.52	43 57.7	61.9	57.80	0.50	43 58.37	58.30	+0.07
4	12.5	44 27.1	31.1	27.10	0.51	44 27.0	31.1	27.05	0.49	44 27.61	27.54	+0.07
5	12	44 54.9	....	54.90	0.51	44 54.9	....	54.90	0.49	44 55.41	55.39	+0.02
6	8	44 58.3	62.1	58.20	0.51	44 58.2	62.1	58.15	0.49	44 58.71	58.64	+0.07
7	12	45 20.5	24.5	20.50	0.51	45 20.6	24.7	20.65	0.49	45 21.01	21.14	-0.13
8	11.5	45 44.3	48.5	44.40	0.51	45 44.4	48.4	44.40	0.48	45 44.91	44.88	+0.03
9	11.5	46 49.8	53.7	49.75	0.50	46 49.8	53.8	49.80	0.48	46 50.25	50.28	-0.03
10	....	.....	....	....	....	46 58.2	62.1	58.15	0.48	46	58.63	....
11	12	47 26.3	30.5	26.40	0.50	.....	....	....	....	47 26.90	.....	....
12	12	47 38.2	....	38.20	0.49	.....	....	....	....	47 38.69	.....	....
13	12	48 23.1	27.2	23.15	0.49	48 23.2	27.0	23.10	0.47	48 23.64	23.57	+0.07
14	12	49 13.2	17.1	13.15	0.48	49 13.4	17.3	13.35	0.46	49 13.63	13.81	-0.18
15	13	50 8.5	12.3	8.40	0.48	.....	....	....	....	50 8.88	.....	....
16	13	50 48.0	52.0	48.00	0.48	50 47.9	52.2	48.05	0.46	50 48.48	48.51	-0.03
17	11	51 34.8	38.7	34.75	0.47	51 34.9	39.0	34.95	0.45	51 35.22	35.40	-0.18
18	11.5	51 41.0	44.9	40.95	0.47	51 41.2	45.3	41.25	0.45	51 41.42	41.70	-0.28
19	10	52 10.3	14.6	10.45	0.47	52 10.6	14.7	10.65	0.45	52 10.92	11 10	-0.18
20	10	52 16.9	20.9	16.90	0.47	52 17.1	21.1	17.10	0.45	52 17.37	17.55	-0.18
21	10.5	52 34.9	39.0	34.95	0.46	52 35.0	38.9	34.95	0.44	52 35.41	35.39	+0.02
22	11	53 4.7	8.8	4.75	0.46	53 4.9	9.0	4.95	0.44	53 5.21	5.39	-0.18
23	....	53 12.6	16.4	12.50	0.46	53 12.6	16.7	12.65	0.44	53 12.96	13.09	-0.13
24	11	53 46.5	50.5	46.50	0.46	53 46.7	50.7	46.70	0.44	53 46.96	47.14	-0.18
25	....	.....	....	....	....	53	56.6	52.60	0.44	53	53.04	....
26	12	54 24.5	28.5	24.50	0.45	54 24.7	28.6	24.65	0.43	54 24.85	25.08	-0.23
27	13	55 39.9	43.8	39.85	0.45	55 39.8	44.0	39.90	0.43	55 40.30	40.33	-0.03
28	13	55	50.8	46.80	0.45	.....	....	....	....	55 47.25	.....	....
29	12	56	36.7	32.70	0.44	.....	....	....	....	56 33.14	.....	....
30	12	56	41.7	37.70	0.44	56 37.7	41.6	37.65	0.42	56 38.14	38.07	+0.07
31	12	59 39.2	43.2	39.20	0.43	59 39.5	43.4	39.45	0.40	59 39.63	39.85	-0.22
32	12	9 59 56.2	60.2	56.20	0.42	9 59 56.4	60.2	56.30	0.40	9 59 56.62	56.70	-0.08
33	12	10 0 9.4	13.4	9.40	0.42	10 .....	....	....	....	10 0 9.82	.....	....
34	13	1 40.9	44.6	40.75	0.41	1 41.1	....	41.10	0.39	1 41.16	41.49	-0.33
35	13	.....	....	....	....	1	46.9	42.90	0.39	1	43.29	....
36	12.5	2	59.4	55.40	0.41	2 55.3	59.3	55.30	0.38	2 55.81	55.68	+0.13
37	12	4 6.8	10.5	6.65	0.40	4 6.9	10.9	6.90	0.38	4 7.05	7.28	-0.23
38	12	4 24.0	....	24.00	0.40	4 23.8	27.9	23.85	0.37	4 24.40	24.22	+0.18
39	12	4 27.4	....	27.40	0.40	.....	....	....	....	4 27.80	.....	....
40	12	4 34.7	38.5	34.60	0.40	4	38.9	34.90	0.37	4 35.00	35.27	-0.27
41	12	6 9.3	13.5	9.40	0.39	6 9.4	13.4	9.40	0.36	6 9.79	9.76	+0.03
42	11	6 48.0	51.7	47.85	0.39	6 47.9	52.0	47.95	0.36	6 48.24	48.31	-0.07
43	11	10 7 34.0	37.8	33.90	+0.38	.....	....	....	....	7 34.28	.....	....
44	12	.....	....	....	....	7 58.3	62.1	58.20	0.35	7	58.55	....
45	11	.....	....	....	....	10 8 41.9	45.9	41.90	+0.35	10 8	42.25	....

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 117.	d.	Zone 118.	d.	Zone 117.	Zone 118.		
1	+ 5 32	+ 1.1	+ 5 37	- 3.0	+ 0 45 33.1	34.0	- 0.9	
2	1 1	1.8	1 6	2.2	0 41 2.8	3.8	- 1.0	
3	4 53	1.2	4 57	2.9	0 44 54.2	54.1	+ 0.1	
4	6 48	0.9	6 50	3.2	0 46 48.9	46.8	+ 2.1	
5	7 58	0.7	8 0	3.4	0 47 58.7	56.6	+ 2.1	
6	4 9	1.3	4 13	2.7	0 44 10.3	10.3	0.0	
7	6 28	1.0	6 30	3.1	0 46 29.0	26.9	+ 2.1	
8	2 38	1.6	2 40	2.4	0 42 39.6	37.6	+ 2.0	
9	3 31	1.4	3 36	2.6	0 43 32.4	33.4	- 1.0	Strong wind, Zone 117.
10	....	...	9 18	3.5	0 49	14.5	...	Hazy, Zone 118.
11	3 10	1.5	....	...	0 43 11.5	....	...
12	5 40	1.1	....	...	0 45 41.1	....	...
13	10 0	0.4	10 1	3.6	0 49 60.4	57.4	+ 3.0	{ Comp. 12th mag. south preceding dist. 14".
14	7 14	0.8	7 16	3.1	0 47 14.8	12.9	+ 1.9	
15	5 39	1.1	....	...	0 45 40.1	....	...
16	6 15	1.0	6 20	3.0	0 46 16.0	17.0	- 1.0	
17	8 10	0.7	8 12	3.3	0 48 10.7	8.7	+ 2.0	
18	6 0	1.0	6 1	2.9	0 45 61.0	58.9	+ 2.1	
19	4 28	1.3	4 29	2.6	0 44 29.3	26.4	+ 2.9	
20	3 4	1.5	3 8	2.4	0 43 5.5	5.6	- 0.1	
21	2 34	1.6	2 38	2.3	0 42 35.6	35.7	- 0.1	
22	9 38	0.4	9 38	3.6	0 49 38.4	34.4	+ 4.0	
23	....	...	8 28	3.3	0 48	24.7	...	
24	8 42	0.6	7 46	3.2	0 47 42.6	42.8	- 0.2	Strong wind, Zone 117.
25	....	...	....	...	.....	....	...
26	9 29	0.5	9 47	3.5	0 49 29.5	43.5	-14.0	
27	4 30	1.3	4 32	2.6	0 44 31.3	29.4	+ 1.9	
28	6 28	1.0	....	...	0 46 29.0	....	...
29	1 59	1.7	....	...	0 42 0.7	....	...
30	10 42	0.3	....	...	0 50 42.3	....	...	Starless field.
31	3 0	1.5	3 3	2.3	0 43 1.5	0.7	+ 0.8	
32	8 38	0.8	7 38	3.1	0 48 38.8	34.9	+ 3.9	
33	2 31	1.6	....	...	0 42 32.6	....	...
34	7 18	0.8	7 19	3.0	0 47 18.8	16.0	+ 2.8	Comp. s. p. d. = 15".
35	....	...	0 15	1.8	0 40	13.2	...	Comp. s. p. d. = 18".
36	5 0	1.2	5 4	2.6	0 45 1.2	1.4	- 0.2	
37	8 29	0.6	8 41	3.2	0 48 29.6	37.8	- 8.2	Strong wind, Zone 117.
38	3 4	1.5	3 6	2.3	0 43 5.5	3.7	+ 1.8	
39	0 0	2.0	....	...	0 40 2.0	....	...
40	2 8	1.7	2 10	2.1	0 42 9.7	7.9	+ 1.8	
41	8 52	0.6	8 58	3.3	0 48 52.6	54.7	- 2.1	
42	7 58	0.7	7 58	3.1	0 47 58.7	54.9	+ 3.8	
43	8 14	0.7	8 19	3.1	0 48 14.7	15.9	- 1.2	
44	3 24	1.5	3 19	2.3	0 43 25.5	16.7	+ 8.8	Suspected double.
45	+10 24	+ 0.3	+10 24	- 3.5	+ 0 50 24.3	20.5	+ 3.8	

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 117.					ZONE 118.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 117.		Zone 118.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	
46	13	10 9 36.4	40.3	36.35	+0.37		10 9 36.2	40.4	36.30	+0.34		10 9 36.72	36.64	+0.08			
47	11-12	10 58.6	62.5	58.55	0.36		.....	.....	.....	.....		10 58.91	.....	.....	
48	12	11 15.5	.....	15.50	0.36		11 15.5	19.5	15.50	0.33		11 15.86	15.83	+0.03			
49	11	11	20.9	16.90	0.36		11 17.1	21.2	17.15	0.33		11 17.26	17.48	-0.22			
50	12	12 0.1	4.2	0.15	0.36		12 0.2	4.5	0.35	0.33		12 0.51	0.68	-0.17			
51	11	12 25.1	28.8	24.95	0.36		12 24.9	28.9	24.90	0.33		12 25.31	25.23	+0.08			
52	12	13 54.2	58.1	54.15	0.35		13 54.1	58.1	54.10	0.32		13 54.50	54.42	+0.08			
53	11.5	14 13.6	17.6	13.60	0.34		14 13.8	17.6	13.70	0.31		14 13.94	14.01	-0.07			
54	12	14 28.7	32.6	28.65	0.34		14 28.7	32.4	28.55	0.31		14 28.99	28.86	+0.13			
55	12	14 30.8	34.9	30.85	0.34		14 31.0	34.8	30.90	0.31		14 31.19	31.21	-0.02			
56	13	15 31.3	35.2	31.25	0.34		15 31.3	35.1	31.20	0.31		15 31.59	31.51	+0.08			
57	14	16 10.6	14.7	10.65	0.33		16 10.8	14.7	10.75	0.30		16 10.98	11.05	-0.07			
58	13	17 58.6	.....	58.60	0.32		.....	.....	.....	.....		17 58.92	.....	.....	
59	13	18	29.8	25.80	0.32		18 26.0	29.9	25.95	0.29		18 26.12	26.24	-0.12			
60	13	19 0.4	4.5	0.45	0.32		19 0.8	4.8	0.80	0.29		19 0.77	1.09	-0.32			
61	12	19 30.3	.....	30.30	0.31		19 30.1	34.3	30.20	0.28		19 30.61	30.48	+0.13			
62	12	19 39.9	44.0	39.95	0.31		19 40.0	44.0	40.00	0.28		19 40.26	40.28	-0.02			
63	12	20 36.9	40.9	36.90	0.31		20 37.2	41.0	37.10	0.28		20 37.21	37.38	-0.17			
64	13	20 56.6	60.6	56.60	0.30		20 56.3	56.5	56.40	0.27		20 56.90	56.67	+0.23			
65	12	22 15.8	19.6	15.70	0.30		22 16.1	19.9	16.00	0.27		22 16.00	16.27	-0.27			
66	12	23 12.7	.....	12.70	0.29		23 12.7	16.5	12.60	0.26		23 12.99	12.86	+0.13			
67	12	23 18.3	22.1	18.20	0.29		23 18.5	22.5	18.50	0.26		23 18.49	18.76	-0.27			
68	12	23 43.7	47.9	43.80	0.29		23 43.8	48.1	43.95	0.26		23 44.09	44.21	-0.12			
69	11-12	24 11.4	15.4	11.40	0.29		24 11.5	15.4	11.45	0.25		24 11.69	11.70	-0.01			
70	11-12	24 32.3	36.5	32.40	0.29		.....	.....	.....	.....		24 32.69	.....	.....	
71	13	24	54.7	50.70	0.29		.....	.....	.....	.....		24 50.99	.....	.....	
72	13	24 59.2	.....	59.20	0.29		.....	.....	.....	.....		24 59.49	.....	.....	
73	11	26 22.4	26.4	22.40	0.28		26 22.4	26.4	22.40	0.24		26 22.68	22.64	+0.04			
74	10	26 45.8	49.8	45.80	0.28		26 45.8	49.8	45.80	0.24		26 46.08	46.04	+0.04			
75	10	26 48.5	52.3	48.40	0.28		26 48.3	52.4	48.35	0.24		26 48.68	48.59	+0.09			
76	12	26	54.8	50.80	0.28		.....	.....	.....	.....		26 51.08	.....	.....	
77	12	27 40.7	44.7	40.70	0.27		27 40.7	44.7	40.70	0.23		27 40.97	40.93	+0.04			
78	12	28 55.8	59.9	55.85	0.27		28 55.7	59.8	55.75	0.23		28 56.12	55.98	+0.14			
79	12	29 16.5	.....	16.50	0.26		29 16.6	20.3	16.45	0.22		29 16.76	16.67	+0.09			
80	12	29 25.0	29.2	25.10	0.26		29 25.2	29.2	25.20	0.22		29 25.36	25.42	-0.06			
81	13	30 18.0	.....	18.00	0.26		30 18.7	.....	18.70	0.22		30 18.26	18.92	-0.66			
82	12	31	58.2	54.20	0.25		31 53.8	.....	53.80	0.21		31 54.45	54.01	+0.44			
83	11.5	31 56.6	.....	56.60	0.25		31 56.4	60.3	56.35	0.21		31 56.85	56.56	+0.29			
84	12	31	61.0	57.00	0.25		31 56.8	60.8	56.80	0.21		31 57.25	57.01	+0.24			
85	12	32 50.3	54.2	50.25	0.24		32 50.1	54.3	50.20	0.20		32 50.49	50.40	+0.09			
86	13	33 35.6	.....	35.60	0.24		33 36.1	39.7	35.90	0.19		33 35.84	36.09	-0.25			
87	12	34 31.0	35.2	31.10	0.23		34 31.2	35.1	31.15	0.19		34 31.33	31.34	-0.01			
88	12	35 11.3	15.2	11.25	0.23		35 11.5	15.4	11.45	0.18		35 11.48	11.63	-0.15			
89	12	35 23.9	27.7	23.80	0.23		35 24.0	27.9	23.95	0.18		35 24.03	24.13	-0.10			
90	12	10 36 18.8	.....	18.80	+0.22		10 36 18.7	22.7	18.70	+0.18		10 36 19.02	18.88	+0.14			

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. [°]+0 40 to [°]0 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 117.	d.	Zone 118.	d.	Zone 117.	Zone 118.		
46	+ 5 48	+ 1.1	+ 5 50	- 2.7	+ 0 45 49.1	47.3	+ 1.8	Has a perceptible disc ?
47	4 38	1.3	....	...	0 44 39.3	....	...
48	4 18	1.3	4 28	2.4	0 44 19.3	25.6	- 6.3	
49	10 43	0.3	....	...	0 50 43.3	....	...
50	5 4	1.2	5 10	2.6	0 45 5.2	7.4	- 2.2	
51	5 12	1.2	5 16	2.6	0 45 13.2	13.4	- 0.2	Comp., s. p., d. = 28".
52	3 30	1.4	3 31	2.3	0 43 31.4	28.7	+ 2.7	
53	6 37	1.0	6 38	2.8	0 46 38.0	35.2	+ 2.8	
54	6 51	0.9	6 54	2.9	0 46 51.9	51.1	+ 0.8	
55	7 31	0.8	7 29	2.9	0 47 31.8	26.1	+ 5.7	
56	4 58	1.2	5 0	2.5	0 44 59.2	57.5	+ 1.7	No star of less than 14th mag. Faint nebulous object.
57	6 30	1.0	6 30	2.7	0 46 31.0	27.3	+ 3.7	
58	8 50	0.6	....	...	0 48 50.6	....	...
59	6 18	1.0	6 22	2.7	0 46 19.0	19.3	- 0.3	
60	8 4	0.7	8 8	3.0	0 48 4.7	5.0	- 0.3	
61	0 24	1.9	0 29	1.7	0 40 25.9	27.3	- 1.4	Suspected double. No star above 15th mag.
62	0 43	1.9	0 47	1.7	0 40 44.9	45.3	- 0.4	
63	3 48	1.4	3 50	2.3	0 43 49.4	47.7	+ 1.7	
64	5 37	1.1	5 40	2.6	0 45 38.1	37.4	+ 0.7	
65	10 18	0.4	10 16	3.3	0 50 18.4	12.7	+ 5.7	
66	6 36	0.9	6 40	2.7	0 46 36.9	37.3	- 0.4	Pale blue.
67	4 34	1.3	4 36	2.4	0 44 35.3	33.6	+ 1.7	
68	5 10	1.2	5 13	2.5	0 45 11.2	10.5	+ 0.7	
69	2 34	1.6	2 37	2.0	0 42 35.6	35.0	+ 0.6	
70	6 2	1.0	....	...	0 46 3.0	....	...
71	2 48	1.6	0 42 49.6	Catalogue. Zone 118 probably right.
72	2 12	1.6	....	...	0 42 13.6	....	...
73	6 53	0.9	....	...	0 46 53.9	....	...
74	8 19	0.7	8 23	3.0	0 48 19.7	20.0	- 0.3	
75	0 0	2.0	2 4	1.9	0 42 2.0	2.1	- 0.1	
76	1 52	1.7	0 41 53.7	Whitish.
77	10 4	0.4	10 10	3.3	0 50 4.4	6.7	- 2.3	
78	7 8	0.9	7 10	2.8	0 47 8.9	7.2	+ 1.7	
79	6 11	1.0	6 12	2.6	0 46 12.0	9.4	+ 2.6	
80	1 19	1.8	1 20	1.7	0 41 20.8	18.3	+ 2.5	
81	9 32	0.5	9 38	3.1	0 49 32.5	34.9	- 2.4	Starless field.
82	1 0	1.8	1 2	1.7	0 41 1.8	3.7	- 1.9	
83	3 0	1.5	3 2	2.0	0 43 1.5	0.0	+ 1.5	
84	4 33	1.3	4 38	2.3	0 44 34.3	35.7	- 1.4	
85	9 35	0.5	9 33	3.1	0 49 35.5	29.9	+ 5.6	
86	1 48	1.7	2 0	1.8	0 41 49.7	58.2	- 8.5	Blue.
87	+ 3 10	1.5	+ 3 10	2.0	0 43 11.5	8.0	+ 3.5	
88	- 0 4	2.0	- 0 1	1.4	0 39 58.0	57.6	+ 0.4	
89	+ 4 40	1.3	+ 4 41	2.2	0 44 41.3	38.8	+ 2.5	
90	+ 8 40	+ 0.6	+ 8 48	- 2.9	+ 0 48 40.6	45.1	- 4.5	

ZONE OBSERVATIONS.

A.R. ^{h.} 9 ^{m.} 42 to ^{h.} 12 ^{m.} 1.

Dec. +0 40 to 0 50.

Number of the Star.	Magnitude.	ZONE 117.						ZONE 118.						MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 117.		Zone 118.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.			
91	12	10 36 28.5	32.7	28.60	+0.22	10 36 28.3	32.3	28.30	+0.18	10 36 28.82	28.48	+0.34					
92	12	36 37.2	....	37.20	0.22	36 37.2	....	37.20	0.17	36 37.42	37.37	+0.05			
93	12	37 30.8	....	30.80	0.21	37 30.8	34.9	30.85	0.17	37 31.01	31.02	-0.01				
94	12	37 40.0	44.0	40.00	0.21	37 40.2	44.3	40.25	0.17	37 40.21	40.42	-0.21					
95	12	37 56.4	60.5	56.45	0.21	37	60.7	56.70	0.16	37 56.66	56.86	-0.20					
96	11-12	38	33.3	29.30	0.21	38 29.5	33.6	29.55	0.16	38 29.51	29.71	-0.20					
97	11-12	38 43.2	47.0	43.10	0.21	38 42.9	46.9	42.90	0.16	38 43.31	43.06	+0.25					
98	10	38 53.2	57.2	53.20	0.21	38 53.2	57.4	53.30	0.16	38 53.41	53.46	-0.05					
99	11	39 6.9	10.9	6.90	0.21	39 7.0	11.0	7.00	0.16	39 7.11	7.16	-0.05					
100	11	39 36.6	40.4	36.50	0.20	39	40.6	36.60	0.15	39 36.70	36.75	-0.05					
101	11	39 47.3	....	47.30	0.20	39 47.4	51.2	47.30	0.15	39 47.50	47.45	+0.05				
102	11	39	52.0	48.00	0.20	39 48.4	52.1	48.25	0.15	39 48.20	48.40	-0.20					
103	12	42 23.1	27.1	23.10	0.19	42 23.1	27.3	23.20	0.14	42 23.29	23.34	-0.05					
104	12	43 0.7	4.5	0.60	0.18	43 0.7	4.6	0.65	0.13	43 0.78	0.78	0.00					
105	12	43 16.3	20.3	16.30	0.18	43 16.2	20.3	16.25	0.13	43 16.48	16.38	+0.10					
106	12	44 7.9	11.9	7.90	0.18	44 7.9	11.8	7.85	0.13	44 8.08	7.98	+0.10					
107	12	44 16.6	....	16.60	0.17	44 16.7	20.3	16.50	0.12	44 16.77	16.62	+0.15				
108	12	44 22.8	....	22.80	0.17	.....	.....	.....	.....	44 22.97	.....	.....			
109	12	46 37.8	41.7	37.75	0.16	46 37.6	41.4	37.50	0.11	46 37.91	37.61	+0.30					
110	12-13	47 1.7	5.5	1.60	0.16	47 1.6	5.3	1.45	0.11	47 1.76	1.56	+0.20					
111	12	47 45.7	49.8	45.75	0.15	47 45.8	49.5	45.65	0.10	47 45.90	45.75	+0.15					
112	9	48 18.2	22.4	18.30	0.15	48	22.4	18.40	0.10	48 18.45	18.50	-0.05					
113	11	50 18.7	22.6	18.65	0.14	.....	.....	.....	.....	50 18.79	.....	.....			
114	12	51 50.7	54.6	50.65	0.13	51	54.4	50.40	0.08	51 50.78	50.48	+0.30					
115	12-13	52 30.5	34.4	30.45	0.13	52 30.9	34.8	30.85	0.07	52 30.58	30.92	-0.34					
116	11-12	53 3.2	7.4	3.30	0.12	53 3.3	7.4	3.35	0.07	53 3.42	3.42	0.00					
117	7	53 50.7	54.6	50.65	0.12	53 50.7	54.8	50.75	0.07	53 50.77	50.82	-0.05					
118	11-12	54 6.3	10.4	6.35	0.12	54 6.3	10.7	6.50	0.07	54 6.47	6.57	-0.10					
119	8	55 20.0	23.8	19.90	0.11	55 20.0	24.0	20.00	0.06	55 20.01	20.06	-0.05					
120	12	55 46.0	50.3	46.15	0.11	55 46.5	50.3	46.40	0.06	55 46.26	46.46	-0.20					
121	12	56 17.2	20.9	17.05	0.11	56	20.7	16.70	0.05	56 17.16	16.75	+0.41					
122	6	56 23.8	27.8	23.80	0.11	56 23.8	27.8	23.80	0.05	56 23.91	23.85	+0.06					
123	8-9	56 48.3	52.2	48.25	0.11	56 48.3	52.3	48.30	0.05	56 48.36	48.35	+0.01					
124	11	57 33.6	37.5	33.55	0.10	.....	.....	.....	.....	57 33.65	.....	.....			
125	11	57 44.4	48.3	44.35	0.10	57 44.4	48.4	44.40	0.04	57 44.45	44.44	+0.01					
126	12	58 5.7	9.7	5.70	0.10	58 5.6	9.7	5.65	0.04	58 5.80	5.69	+0.11					
127	...	58 35.0	39.0	35.00	0.10	10 58 35.1	39.0	35.05	0.04	58 35.10	35.09	+0.01					
128	12	10 59 53.0	57.3	53.15	0.09	.....	.....	.....	.....	10 59 53.24	.....	.....			
129	12	11 0 13.6	17.4	13.50	0.09	.....	.....	.....	.....	11 0 13.59	.....	.....			
130	12	1 3.0	6.7	2.85	0.08	.....	.....	.....	.....	1 2.93	.....	.....			
131	12	1 16.0	20.2	16.10	0.08	.....	.....	.....	.....	1 16.18	.....	.....			
132	12	1 39.4	43.6	39.50	0.08	.....	.....	.....	.....	1 39.58	.....	.....			
133	12	4 25.3	29.3	25.30	0.06	.....	.....	.....	.....	4 25.36	.....	.....			
134	12	5 7.3	....	7.30	0.06	.....	.....	.....	.....	5 7.36	.....	.....			
135	12	11 5	11.5	7.50	+0.06	.....	.....	.....	.....	5 7.56	.....	.....			

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 117.	d.	Zone 118.	d.	Zone 117.	Zone 118.		
91	+ 7 45	+ 0.8	+ 7 48	- 2.8	+ 0 47 45.8	45.2	+ 0.6	
92	7 50	0.8	7 51	2.8	0 47 50.8	48.2	+ 2.6	
93	7 40	0.8	7 42	2.8	0 47 40.8	39.2	+ 1.6	
94	3 18	1.5	3 31	2.0	0 43 19.5	29.0	- 9.5	
95	1 28	1.8	1 40	1.7	0 41 29.8	38.3	- 8.8	
96	3 0	1.5	3 0	1.9	0 42 61.5	58.1	+ 3.4	
97	1 0	1.8	1 3	1.6	0 41 1.8	1.4	+ 0.4	
98	10 18	0.4	10 22	3.2	0 50 18.4	18.8	- 0.4	
99	9 31	0.5	9 34	3.0	0 49 31.5	31.0	+ 0.5	
100	8 30	0.6	8 33	2.9	0 48 30.6	30.1	+ 0.5	
101	8 41	0.6	8 45	2.9	0 48 41.6	42.1	- 0.5	
102	4 1	1.4	3 8	1.9	0 43 2.4	6.1	- 3.7	
103	5 40	1.1	5 42	2.4	0 45 41.1	39.6	+ 1.5	
104	4 4	1.3	4 8	2.0	0 44 5.3	6.0	- 0.7	
105	9 8	0.5	9 10	2.9	0 49 8.5	7.1	+ 1.4	
106	6 4	1.0	6 7	2.4	0 46 5.0	4.6	+ 0.4	
107	10 0	0.4	10 8	3.0	0 50 0.4	5.0	- 4.6	
108	0 30	1.9	....	...	0 40 31.9	....	...	Hit the telescope, Zone 118.
109	8 11	0.7	8 20	2.7	0 48 11.7	17.3	- 5.6	
110	8 8	0.7	8 12	2.7	0 48 8.7	9.3	- 0.6	
111	9 30	0.5	9 32	2.9	0 49 30.5	29.1	+ 1.4	
112	10 40	0.3	10 48	3.1	0 50 40.3	44.9	- 4.6	Double.
113	10 10	0.4	....	...	0 50 10.4	....	...
114	10 8	0.4	10 12	2.9	0 50 8.4	9.1	- 0.7	
115	9 18	0.5	9 28	2.8	0 49 18.5	25.2	- 6.7	
116	10 19	0.4	10 22	2.9	0 50 19.4	19.1	+ 0.3	
117	8 9	0.7	8 11	2.6	0 48 9.7	8.4	+ 1.3	
118	+ 5 3	1.2	+ 5 8	2.0	0 45 4.2	6.0	- 1.8	
119	- 0 16	2.0	- 0 12	1.1	0 39 46.0	46.9	- 0.9	
120	+ 2 53	1.5	+ 2 57	1.7	0 42 54.5	55.3	- 0.8	
121	2 0	1.7	2 5	1.5	0 42 1.7	3.5	- 1.8	
122	5 23	1.1	5 28	2.1	0 45 24.1	25.9	- 1.8	
123	3 38	1.4	3 42	1.8	0 43 39.4	40.2	- 0.8	
124	2 59	1.5	....	...	0 43 0.5	....	...
125	2 48	1.6	2 50	1.7	0 42 49.6	48.3	+ 1.3	
126	10 20	0.5	10 24	2.9	0 50 20.5	21.1	- 0.6	
127	3 20	1.5	3 25	1.7	0 43 21.5	23.3	- 1.8	Nebula.
128	7 21	0.8	....	...	0 47 21.8	....	...
129	5 1	1.2	....	...	0 45 2.2	....	...
130	2 30	1.6	....	...	0 42 31.6	....	...
131	4 9	1.3	....	...	0 44 10.3	....	...
132	0 39	1.9	....	...	0 40 40.9	....	...
133	9 31	0.5	....	...	0 49 31.5	....	...
134	9 11	0.5	....	...	0 49 11.5	....	...
135	+ 3 23	+ 1.5	+	- ...	+ 0 43 24.5	....	...

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 117.					ZONE 118.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 117.	Zone 118.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.		
136	11-12	11 6 19.1	23.4	19.25	+0.05		11 6 32.7	....	32.70	-0.01		11 6 19.30	....	....
137	6-7	6 32.7	36.6	32.65	0.05		6 32.7	....	32.70	-0.01		6 32.70	32.69	+0.01
138	12	8 4.2	7.9	4.05	0.04		....	....	....	....		8 4.09	....	....
139	11	8 19.3	23.2	19.25	0.04		....	....	....	....		8 19.29	....	....
140	11	8 41.1	44.9	41.00	0.04		....	....	....	....		8 41.04	....	....
141	12	9 19.5	23.4	19.45	0.03		9 19.7	23.7	19.70	0.03		9 19.48	19.67	-0.19
142	11	9 42.2	46.3	42.25	0.03		9 42.2	46.0	42.10	0.03		9 42.28	42.07	+0.21
143	12	10 48.0	52.3	48.15	0.03		10 48.1	52.3	48.20	0.03		10 48.18	48.17	+0.01
144	11	11 55.0	59.3	55.15	0.02		11 55.2	59.2	55.20	0.04		11 55.17	55.16	+0.01
145	11	12 24.0	28.1	24.05	0.02		12 24.2	28.1	24.15	0.04		12 24.07	24.11	-0.04
146	12	12 45.6	49.5	45.55	0.01		12 45.7	49.8	45.75	0.05		12 45.56	45.70	-0.14
147	11-12	13	18.5	14.50	0.01		13 14.8	18.6	14.70	0.05		13 14.51	14.65	-0.14
148	12	13 49.9	53.9	49.90	+0.01		13 49.9	54.2	50.05	0.05		13 49.91	50.00	-0.09
149	8	14 33.7	....	33.70	0.00		14 33.7	37.8	33.75	0.06		14 33.70	33.69	+0.01
150	8	14	39.0	35.00	0.00		14 35.3	39.3	35.30	0.06		14 35.00	35.24	-0.24
151	8	14 44.3	48.4	44.35	0.00		14 44.6	48.5	44.55	0.06		14 44.35	44.49	-0.14
152	11	15 11.3	15.2	11.25	0.00		15 11.3	15.3	11.30	0.06		15 11.25	11.24	+0.01
153	12	17 0.0	4.0	0.00	-0.01		17 0.1	4.2	0.15	0.07		16 59.99	60.08	-0.09
154	12	17 14.0	18.0	14.00	0.01		17 14.2	18.0	14.10	0.07		17 13.99	14.23	-0.04
155	11-12	17 45.3	49.3	45.30	0.02		17 45.3	49.4	45.35	0.08		17 45.28	45.27	+0.01
156	12	18 24.0	27.9	23.95	0.02		18 23.7	28.0	23.85	0.08		18 23.93	23.77	+0.16
157	10-11	18 41.4	45.4	41.40	0.02		18 41.7	45.5	41.60	0.08		18 41.38	41.52	-0.14
158	10	19 9.0	13.2	9.10	0.02		19 9.1	13.1	9.10	0.08		19 9.08	9.02	+0.06
159	12	19 36.9	....	36.90	0.03		19 37.4	41.3	37.35	0.09		19 36.87	37.26	-0.39
160	11-12	20 30.8	34.9	30.85	0.03		20 31.1	35.0	31.05	0.09		20 30.82	30.96	-0.14
161	11-12	20 39.9	43.9	39.90	0.03		20 39.9	44.1	40.00	0.09		20 39.87	39.91	-0.01
162	11-12	20 44.9	....	44.90	0.03		20 44.9	49.3	45.10	0.09		20 44.87	45.01	-0.14
163	12	21 38.5	....	38.50	0.04		21 38.6	42.2	38.40	0.10		21 38.46	38.30	+0.16
164	12	.....	....	....	....		22 7.9	12.0	7.95	0.10		22	7.85	....
165	11	22 14.2	18.2	14.20	0.04		22 14.2	....	14.20	0.10		22 14.16	14.10	+0.06
166	10	22 16.0	19.8	15.90	0.04		22 15.7	19.7	15.70	0.10		22 15.86	15.60	+0.26
167	11	23 2.7	....	2.70	0.05		23 2.5	....	2.50	0.11		23 2.65	2.39	+0.26
168	11	23	6.6	2.60	0.05		23	6.4	2.40	0.11		23 2.55	2.29	+0.26
169	11	24 34.4	38.4	34.40	0.06		24 34.4	38.5	34.45	0.12		24 34.34	34.33	+0.01
170	11	24 42.5	46.5	42.50	0.06		24 42.4	....	42.40	0.12		24 42.44	42.28	+0.16
171	11	25 0.3	4.4	0.35	0.06		25 0.4	4.4	0.40	0.12		25 0.29	0.28	+0.01
172	12	25 12.4	16.2	12.30	0.06		25 12.0	16.3	12.15	0.12		25 12.24	12.03	+0.21
173	12	26 41.4	45.4	41.40	0.07		26 41.5	45.7	41.60	0.13		26 41.33	41.47	-0.14
174	11-12	26 54.9	59.0	54.95	0.07		26 55.0	59.2	55.10	0.13		26 54.88	54.97	-0.09
175	12	27 28.1	32.0	28.05	0.07		.....	....	....	....		27 27.98	....	....
176	12-13	28 6.3	10.8	6.55	0.08		28 6.5	10.8	6.65	0.14		28 6.47	6.51	-0.04
177	11	28 23.9	28.2	24.05	0.08		28 24.2	....	24.20	0.14		28 23.97	24.06	-0.09
178	12	28 27.4	31.7	27.55	0.08		28 27.7	31.8	27.75	0.14		28 27.47	27.61	-0.14
179	11	28	35.8	31.80	0.08		28	35.6	31.60	0.14		28 31.72	31.46	+0.26
180	12	11 30 26.1	30.2	26.15	-0.09		11 30 26.0	30.0	26.00	-0.15		11 30 26.06	25.85	+0.21

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 117.	d.	Zone 118.	d.	Zone 117.	Zone 118.		
136	+ 2 17	+ 1.6	+	+ 0 42 18.6	Strong wind, Zone 117.
137	1 48	1.7	1 50	- 1.4	0 41 49.7	48.6	+ 1.1	
138	4 8	1.3	....	...	0 44 9.3	....	...
139	4 18	1.3	....	...	0 44 19.3	....	...
140	0 0	2.0	....	...	0 40 2.0	....	...
141	6 30	1.0	6 32	2.1	0 46 31.0	29.9	+ 1.1	Zone 118 probably correct.
142	3 0	1.5	3 0	1.5	0 42 61.5	58.5	+ 3.0	
143	5 23	1.1	5 38	1.9	0 45 24.1	36.1	-12.0	
144	+10 20	0.3	+10 26	2.7	0 50 20.3	23.3	- 3.0	
145	- 0 11	2.0	- 0 6	1.0	0 39 51.0	53.0	- 2.0	
146	+ 4 1	1.4	+ 4 3	1.6	0 44 2.4	1.4	+ 1.0	
147	1 38	1.7	1 40	1.2	0 41 39.7	38.8	+ 0.9	
148	3 50	1.4	3 52	1.6	0 43 51.4	50.4	+ 1.0	
149	7 28	0.8	7 30	2.2	0 47 28.8	27.8	+ 1.0	
150	3 4	1.5	3 8	1.4	0 43 5.5	6.6	- 1.1	
151	9 21	0.5	9 26	2.5	0 49 21.5	23.5	- 2.0	
152	2 21	1.6	2 28	1.2	0 42 22.6	26.8	- 4.2	
153	8 25	0.7	8 29	2.3	0 48 25.7	26.7	- 1.0	
154	6 8	1.0	6 11	1.9	0 46 9.0	9.1	- 0.1	
155	0 30	1.9	0 34	0.9	0 40 31.9	33.1	- 1.2	
156	1 50	1.7	1 52	1.2	0 41 51.7	50.8	+ 0.9	
157	2 2	1.7	2 4	1.2	0 42 3.7	2.8	+ 0.9	
158	5 36	1.1	5 40	1.8	0 45 37.1	38.2	- 1.1	
159	7 4	0.9	7 6	2.0	0 47 4.9	4.0	+ 0.9	
160	2 43	1.6	2 42	1.3	0 42 44.6	40.7	+ 3.9	
161	1 38	1.7	1 38	1.1	0 41 39.7	36.9	+ 2.8	Zone 118 probably correct.
162	1 31	1.8	1 42	1.1	0 41 32.8	40.9	- 8.1	
163	8 34	0.6	8 37	2.3	0 48 34.6	34.7	- 0.1	
164	2 10	1.7	2 10	1.2	0 42 11.7	8.8	+ 2.9	
165	3 50	1.4	3 50	1.4	0 43 51.4	48.6	+ 2.8	
166	7 8	0.9	7 8	2.0	0 47 8.9	6.0	+ 2.9	Starless field.
167	2 47	1.5	2 44	1.2	0 42 48.5	42.8	+ 5.7	
168	3 16	1.5	3 19	1.3	0 43 17.5	17.7	- 0.2	
169	10 37	0.3	10 40	2.6	0 50 37.3	37.4	- 0.1	
170	7 1	0.9	7 3	2.0	0 47 1.9	1.0	+ 0.9	
171	1 0	1.8	1 2	0.9	0 41 1.8	1.1	+ 0.7	Very strong wind, Zone 117.
172	8 8	0.7	8 10	2.1	0 48 8.7	7.9	+ 0.8	
173	4 41	1.2	4 45	1.5	0 44 42.2	43.5	- 1.3	
174	4 5	1.3	4 8	1.4	0 44 6.3	6.6	- 0.3	
175	8 41	0.6	....	...	0 48 41.6	....	...
176	1 32	1.8	1 34	1.0	0 41 33.8	33.0	+ 0.8	
177	5 58	1.0	6 0	1.7	0 45 59.0	58.3	+ 0.7	
178	5 57	1.0	5 57	1.7	0 45 58.0	55.3	+ 2.7	
179	3 48	1.4	....	...	0 43 49.4	....	...
180	+ 5 9	+ 1.2	+ 5 10	- 1.6	+ 0 45 10.2	8.4	+ 1.8	

ZONE OBSERVATIONS.

A.R. ^{h.} 9 ^{m.} 42 to ^{h.} 12 ^{m.} 1.Dec. ⁰ 40 to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 117.						ZONE 118.						MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 117.	Zone 118.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.		
181	12-13	11 31 7.2	10.9	7.05	-0.09		11 31 7.2	11.0	7.10	-0.16		11 31 6.96	6.94	+0.02		
182	10	32 10.6	14.5	10.55	0.09		32 10.6	14.6	10.60	0.16		32 10.46	10.44	+0.02		
183	11-12	32 16.2	....	16.20	0.09		32 16.8	20.9	16.85	0.16		32 16.11	16.69	-0.58	
184	11-12	32	21.6	17.60	0.09		32	21.5	17.50	0.16		32 17.51	17.34	+0.17		
185	10	33 6.4	10.3	6.35	0.10		33 6.7	10.7	6.70	0.17		33 6.25	6.53	-0.28		
186	12	33 42.6	46.7	42.65	0.10		33 42.9	46.8	42.85	0.17		33 42.55	42.68	-0.13		
187	12	33 48.0	52.3	48.15	0.10		33 48.4	52.5	48.45	0.17		33 48.05	48.28	-0.23		
188	12	34 16.2	20.2	16.20	0.11		34 16.5	20.7	16.60	0.18		34 16.09	16.40	-0.31		
189	12-13	35 5.1	....	5.10	0.11		35 4.9	....	4.90	0.18		35 4.99	4.72	+0.27	
190	...	35 6.2	10.4	6.30	0.11		35 6.1	10.2	6.15	0.18		35 6.19	5.97	+0.22		
191	10	35 9.3	13.3	9.30	0.11		35 9.3	13.4	9.35	0.18		35 9.19	9.17	+0.02		
192	11	35 49.0	53.1	49.05	0.11		35 49.4	53.3	49.35	0.18		35 48.94	49.17	-0.23		
193	12	35 58.1	62.2	58.15	0.12		....	....	....	....		35 58.03	....	....
194	11	37 32.5	36.5	32.50	0.13		37 32.7	36.8	32.75	0.20		37 32.37	32.55	-0.18		
195	12	38 26.7	30.5	26.60	0.13		38 26.6	30.5	26.55	0.20		38 26.47	26.35	+0.12		
196	12	38	34.5	30.50	0.13		38	34.1	30.10	0.20		38 30.37	29.90	+0.47		
197	13	39 13.3	17.1	13.20	0.14		39	17.3	13.30	0.21		39 13.06	13.09	-0.03		
198	12-13	39 28.9	33.0	28.95	0.14		39 29.5	33.3	29.40	0.21		39 28.81	29.19	-0.38		
199	12	40 3.5	7.4	3.45	0.14		40 3.5	7.6	3.55	0.21		40 3.31	3.34	-0.03		
200	12	40	23.1	19.10	0.14		40 19.2	23.2	19.20	0.21		40 18.96	18.99	-0.03		
201	...	41 3.7	7.9	3.80	0.15		41 4.0	8.1	4.05	0.22		41 3.65	3.83	-0.18		
202	12	42 12.6	16.3	12.45	0.15		42 12.4	16.5	12.45	0.23		42 12.30	12.22	+0.08		
203	11	45 48.6	52.7	48.65	0.17		45 48.7	52.6	48.65	0.25		45 48.48	48.40	+0.08		
204	11	46 15.5	19.5	15.50	0.17		46 15.6	....	15.60	0.25		46 15.33	15.35	-0.02	
205	11	46 30.4	34.4	30.40	0.17		46 30.3	34.6	30.45	0.26		46 30.23	30.19	+0.04		
206	11-12	46	57.6	53.60	0.17		46	57.7	53.70	0.26		46 53.43	53.44	-0.01		
207	11-12	47 1.1	5.2	1.15	0.18		47 1.4	5.5	1.45	0.26		47 0.97	1.19	-0.22		
208	11	47 4.1	8.2	4.15	0.18		47 4.3	8.2	4.25	0.26		47 3.97	3.99	+0.02		
209	12-13	47 37.1	41.4	37.25	0.18		47 36.7	....	36.70	0.26		47 37.07	36.44	+0.63	
210	11	48 26.0	30.2	26.10	0.18		48 26.2	....	26.20	0.27		48 25.92	25.93	-0.01	
211	11	51 20.0	23.9	19.95	0.20		51 20.0	23.9	19.95	0.29		51 19.75	19.66	+0.09		
212	12	51 37.4	41.5	37.45	0.20		....	....	....	....		51 37.25	....	....
213	11	51 59.4	63.5	59.45	0.20		51 59.4	63.6	59.50	0.29		51 59.25	59.21	+0.04		
214	10	52 6.0	10.0	6.00	0.20		52 6.3	10.3	6.30	0.29		52 5.80	6.01	-0.21		
215	12	53	13.3	9.30	0.21		53 9.0	13.2	9.10	0.30		53 9.09	8.80	+0.29		
216	12	53 11.3	....	11.30	0.21		53 11.0	15.2	11.10	0.30		53 11.09	10.80	+0.29	
217	12	53 51.2	55.1	51.15	0.21		53 51.1	55.2	51.15	0.30		53 50.94	50.85	+0.09		
218	11-12	53 52.9	56.8	52.85	0.21		54 52.8	56.9	52.85	0.31		53 52.64	52.54	+0.10		
219	9-10	55 17.9	21.9	17.90	0.22		55 18.1	22.0	18.05	0.31		55 17.68	17.74	-0.06		
220	12	55 25.3	29.4	25.35	0.22		55 25.3	29.0	25.15	0.31		55 25.13	24.84	+0.29		
221	12	56 14.7	18.6	14.65	0.23		....	....	....	....		56 14.42	....	....
222	12	56 35.6	....	35.60	0.23		....	....	....	....		56 35.37	....	....
223	11	56	39.4	35.40	0.23		56 34.0	38.0	34.00	0.32		56 35.17	33.68	+1.49		
224	12	58 4.3	8.1	4.20	0.24		58 3.9	8.3	4.10	0.33		58 3.96	3.77	+0.19		
225	11	11 58 12.5	16.4	12.45	-0.24		11 58	16.2	12.20	-0.33		11 58 12.21	11.87	+0.34		

A.R. $9^{\text{h}} 49^{\text{m}}$ to $10^{\text{h}} 1^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 117.	d.	Zone 118.	d.	Zone 117.	Zone 118.		
181	+ 5 37	+ 1.1	+ 4 57	- 1.5	+ 0 44 98.1	55.5	+42.6	
182	3 52	1.4	3 55	1.3	0 43 53.4	53.7	- 0.3	
183	3 29	1.4	3 31	1.3	0 43 30.4	29.7	+ 0.7	
184	2 0	1.7	2 0	1.0	0 41 61.7	59.0	+ 2.7	
185	7 31	0.8	7 32	1.9	0 47 31.8	30.1	+ 1.7	
186	2 28	1.6	2 30	1.1	0 42 29.6	28.9	+ 0.7	
187	5 9	1.2	5 12	1.5	0 45 10.2	10.5	- 0.3	
188	4 34	1.3	4 38	1.4	0 44 35.3	36.6	- 1.3	
189	0 22	2.0	0 28	0.7	0 40 24.0	27.3	- 3.3	
190	2 23	1.6	2 29	1.0	0 42 24.6	28.0	- 3.4	
191	9 0	0.6	9 5	2.1	0 49 0.6	2.9	- 2.3	Comp. south following dist. 11"
192	1 48	1.7	1 52	0.9	0 41 49.7	51.1	- 1.4	
193	....	...	....	...	0 ....	....	...
194	1 39	1.7	1 41	0.8	0 41 40.7	40.2	+ 0.5	
195	6 27	1.0	6 30	1.6	0 46 28.0	28.4	- 0.4	
196	8 0	1.7	8 2	1.9	0 48 1.7	0.1	+ 1.6	
197	8 9	1.7	8 16	1.8	0 48 10.7	14.2	- 3.5	
198	8 55	1.6	9 0	2.0	0 48 56.6	58.0	- 1.4	
199	4 0	1.4	4 0	1.2	0 43 61.4	58.8	+ 2.6	
200	3 0	1.5	3 0	1.0	0 42 61.5	59.0	+ 2.5	
201	....	...	4 0	1.2	0 43	58.8	...	
202	5 30	1.1	5 32	1.4	0 45 31.1	30.6	+ 0.5	
203	10 11	1.4	10 16	2.2	0 50 12.4	13.8	- 1.4	
204	7 32	1.8	7 33	1.7	0 47 33.8	31.3	+ 2.5	
205	5 12	1.2	....	...	0 45 13.2	....	...
206	2 50	1.5	2 50	0.9	0 42 51.5	49.1	+ 2.4	
207	8 19	0.7	8 28	1.9	0 48 19.7	26.1	- 6.4	
208	2 51	1.5	2 57	0.9	0 42 52.5	56.1	- 3.6	
209	6 19	1.0	6 19	1.5	0 46 20.0	17.5	+ 2.5	
210	2 22	1.6	2 28	0.8	0 42 23.6	27.2	- 3.6	
211	9 25	0.4	9 27	2.0	0 49 25.4	25.0	+ 0.4	
212	10 44	0.3	....	...	0 50 44.3	....	...
213	7 28	0.8	7 30	1.7	0 47 28.8	28.3	+ 0.5	
214	8 18	0.7	8 17	1.8	0 48 18.7	15.2	+ 3.5	
215	4 48	1.2	4 42	1.2	0 44 49.2	40.8	+ 8.4	
216	10 50	0.3	10 50	2.2	0 50 50.3	47.8	+ 2.5	
217	6 18	1.0	6 20	1.4	0 46 19.0	18.6	+ 0.4	
218	10 10	0.4	10 12	2.1	0 50 10.4	9.9	+ 0.5	
219	9 32	0.5	9 34	2.0	0 49 32.5	32.0	+ 0.5	
220	9 20	0.5	9 28	2.0	0 49 20.5	26.0	- 5.5	
221	5 50	1.1	....	...	0 45 51.1	....	...
222	9 0	0.6	....	...	0 49 0.6	....	...
223	2 5	1.7	2 8	0.7	0 42 6.7	7.3	- 0.6	
224	2 28	1.6	2 22	0.7	0 42 29.6	21.3	+ 8.3	
225	+ 2 59	+ 1.5	+ 3 0	- 0.8	+ 0 42 60.5	59.2	+ 1.3	

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 117.					ZONE 118.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 117.	Zone 118.			
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
226	12	11 58 39.6	43.5	39.55	-0.24	11 58 39.8	....	39.80	-0.33	11 58 39.31	39.47	-0.16	
227	10	58 54.4	58.5	54.45	0.24	58 54.6	58.4	54.50	0.33	58 54.21	54.17	+0.04		
228	9	59 10.3	14.4	10.35	0.24	59 10.4	14.6	10.50	0.34	59 10.11	10.16	-0.05		
229	12	11 59 27.6	31.7	27.65	0.25	11 59 27.7	....	27.70	0.34	11 59 27.40	27.36	+0.04	
230	12	12 0 2.3	6.1	2.20	0.25	12 0 2.3	....	2.30	0.34	12 0 1.95	1.96	-0.01	
231	12	0 28.6	32.4	28.50	0.25	0 28.4	32.5	28.45	0.34	0 28.25	28.11	+0.14		
232	11	0 39.0	43.1	39.05	0.25	0 38.6	42.8	38.70	0.34	0 38.80	38.36	+0.44		
233	..	.....	....	.....	....	1 3.4	....	.....	0.35	1	3.05	....	
234	11	1 7.6	11.5	7.65	0.26	1 7.3	11.6	7.45	0.35	1 7.39	7.10	+0.29		
235	10	12 1 15.0	19.1	15.05	-0.26	12 1 15.0	19.2	15.10	-0.35	12 1 14.79	14.75	+0.04		

OBSERVATORY OF HARVARD COLLEGE.

13

A.R. ^{h.}9 ^{m.}42 to ^{h.}12 ^{m.}1.Dec. $+\overset{\circ}{0} 40$ to $\overset{\circ}{0} 50$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 117.	d.	Zone 118.	d.	Zone 117.	Zone 118.		
226	+ 4 38	+ 1.3	+ 4 35	- 1.1	+ 0 44 34.3	33.9	+ 0.4	Asteroid.
227	....	...	7 35	1.6	0 47	33.4	+ ...
228	0 28	1.9	0 30	0.4	0 40 29.9	29.6	+ 0.3	
229	2 29	1.6	3 30	0.9	0 43 30.6	29.1	+ 1.5	
230	5 9	1.2	5 10	1.2	0 45 10.2	9.8	+ 0.4	
231	2 12	1.6	2 12	0.7	0 42 13.6	11.3	+ 2.3	
232	10 5	0.4	10 9	2.0	0 50 5.4	7.0	- 1.6	
233	....	...	10 0	2.0	0 49	58.0	+ ...
234	0 43	1.9	0 50	0.4	0 40 44.9	49.6	- 4.7	
235	+ 7 42	+ 0.8	+ 7 42	- 1.6	+ 0 47 42.8	40.4	+ 2.4	

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 119.						ZONE 173.						MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.		Zone 119.		Zone 173.	
		h. m. s.	s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	s.	h. m. s.	s.	s.	
1	9	9 44 8.1	....	....	8.10	+0.45	....	9 44 9.4	13.4	9.40	-0.69	....	....	9 44 8.55	8.71	-0.16	....
2	11	44 ....	....	33.9	29.90	0.45	....	44 31.2	35.1	31.15	0.70	....	....	44 30.35	30.45	-0.10	....
3	11	45 3.2	7.2	3.20	0.45	....	....	45 4.4	8.2	4.30	0.69	....	....	45 3.65	3.61	+0.04	....
4	12	45 43.3	47.2	43.25	0.46	....	....	45 44.3	48.3	44.30	0.70	....	....	45 43.71	43.60	+0.11	....
5	..	.....	....	....	....	....	....	45 55.7	59.6	55.65	0.69	....	....	45	54.96	....	....
6	12	46 23.9	....	23.90	0.45	....	....	46 25.1	29.0	25.05	0.68	....	....	46 24.35	24.37	-0.02	....
7	..	46 27.4	31.4	27.40	0.45	....	....	46	32.3	28.30	0.69	....	....	46 27.85	27.61	+0.24	....
8	12	48 21.7	....	21.70	0.44	....	....	48 22.8	26.7	22.75	0.67	....	....	48 22.14	22.08	+0.06	....
9	12	48 25.7	29.7	25.70	0.45	....	....	.....	....	....	....	....	....	48 26.15	....	....	....
10	12	49 22.6	26.7	22.65	0.45	....	....	49 23.8	27.8	23.80	0.68	....	....	49 23.10	23.12	-0.02	....
11	12	50 31.2	35.3	31.25	0.44	....	....	50 32.4	36.4	32.40	0.66	....	....	50 31.69	31.74	-0.05	....
12	11-12	51 9.4	13.4	9.40	0.44	....	....	51 10.6	14.4	10.50	0.66	....	....	51 9.84	9.84	0.00	....
13	11	53 7.4	11.5	7.45	0.44	....	....	.....	....	....	....	....	....	53 7.89	....	....	....
14	11-12	54 4.0	7.8	3.90	0.43	....	....	54 4.7	8.7	4.70	0.64	....	....	54 4.33	4.06	+0.27	....
15	11-12	54 27.0	....	27.00	0.44	....	....	.....	....	....	....	....	....	54 27.44	....	....	....
16	11	54 53.2	57.2	53.20	0.43	....	....	54 54.2	58.3	54.25	0.64	....	....	54 53.63	53.61	+0.02	....
17	12	55 41.3	45.2	41.25	0.43	....	....	55 42.2	46.3	42.25	0.63	....	....	55 41.68	41.62	+0.06	....
18	11-12	56 1.7	5.8	1.75	0.43	....	....	56 2.8	6.7	2.75	0.62	....	....	56 2.18	2.13	+0.05	....
19	13	56 25.1	29.0	25.05	0.43	....	....	56 26.1	30.0	26.05	0.63	....	....	56 25.48	25.42	+0.06	....
20	..	.....	....	....	....	....	....	56 39.9	43.6	39.75	0.63	....	....	56	39.12	....	....
21	11-12	56 53.1	57.0	53.05	0.44	....	....	56 54.2	57.9	54.05	0.64	....	....	56 53.49	53.41	+0.08	....
22	13	57 42.9	....	42.90	0.43	....	....	57 43.8	47.8	43.80	0.63	....	....	57 43.33	43.17	+0.16	....
23	12-13	58 19.6	23.6	19.60	0.43	....	....	58 20.7	24.8	20.75	0.62	....	....	58 20.03	20.13	-0.10	....
24	11-12	9 58 21.0	25.0	21.00	0.43	....	....	9 58 22.5	26.3	22.40	0.62	....	....	9 58 21.43	21.78	-0.35	....
25	12	10 0 2.4	6.2	2.30	0.42	....	....	10 0 3.4	7.4	3.40	0.61	....	....	10 0 2.72	2.79	-0.07	....
26	11	0 4.3	8.2	4.25	0.42	....	....	0 5.4	9.2	5.30	0.60	....	....	0 4.67	4.70	-0.03	....
27	..	.....	....	....	....	....	....	0 12.1	15.9	12.00	0.61	....	....	0	11.39	....	....
28	14	1 15.4	19.4	15.40	0.42	....	....	1 16.5	20.2	16.35	0.61	....	....	1 15.82	15.74	+0.08	....
29	11-12	1 54.1	58.1	54.10	0.42	....	....	1 55.4	59.0	55.20	0.60	....	....	1 54.52	54.60	-0.08	....
30	11	2 53.3	57.2	53.25	0.42	....	....	2 54.5	58.4	54.45	0.60	....	....	2 53.67	53.85	-0.18	....
31	12	3 4.2	8.2	4.20	0.42	....	....	3 5.3	9.2	5.25	0.59	....	....	3 4.62	4.66	-0.04	....
32	12	4 0.3	4.1	0.20	0.42	....	....	4 1.5	5.3	1.40	0.59	....	....	4 0.62	0.81	-0.19	....
33	11	4 50.7	54.7	50.70	0.41	....	....	4 51.5	55.4	51.45	0.58	....	....	4 51.11	50.87	+0.24	....
34	12	5 27.4	31.5	27.45	0.42	....	....	5 28.6	32.5	28.55	0.59	....	....	5 27.87	27.96	-0.09	....
35	13	6 1.8	5.8	1.80	0.41	....	....	6 2.8	....	2.80	0.58	....	....	6 2.21	2.22	-0.01	....
36	13-14	7 35.1	39.0	35.05	0.41	....	....	.....	....	....	....	....	....	7 35.46	....	....	....
37	12	8 38.1	42.0	38.05	0.41	....	....	.....	....	....	....	....	....	8 38.46	....	....	....
38	12	8 44.3	48.5	44.40	0.41	....	....	.....	....	....	....	....	....	8 44.81	....	....	....
39	12	9 38.5	42.3	38.40	0.41	....	....	9 39.2	43.2	39.20	0.57	....	....	9 38.81	38.63	+0.18	....
40	12	9 43.2	....	43.20	0.41	....	....	.....	....	....	....	....	....	9 43.61	....	....	....
41	12	9 49.1	53.0	49.05	0.40	....	....	9 49.8	54.0	49.90	0.55	....	....	9 49.45	49.35	+0.10	....
42	13	11 1.2	5.2	1.20	0.41	....	....	11 2.2	....	2.20	0.56	....	....	11 1.61	1.64	-0.03	....
43	12	11 4.1	8.1	4.10	0.40	....	....	10 11 5.0	9.1	5.05	-0.54	....	....	11 4.50	4.51	-0.01	....
44	12	11 19.5	23.4	19.45	0.41	....	....	.....	....	....	....	....	....	11 19.86	....	....	....
45	12-13	10 11 43.8	47.8	43.80	+0.40	....	....	.....	....	....	....	....	....	10 11 44.20	....	....	....

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 119.	d.	Zone 178.	d.	Zone 119.	Zone 178.		
1	+ 8 10	-18.3	+ 8 14	-21.9	+ 0 57 51.7	52.1	- 0.4	No stars above 15th mag. Comp. s. p. distance, 15".
2	6 18	18.0	6 23	21.6	0 56 0.0	1.4	- 1.4	
3	7 33	18.2	7 36	21.8	0 57 14.8	14.2	+ 0.6	
4	0 40	17.2	0 44	20.8	0 50 22.8	23.2	- 0.4	
5	....	....	9 38	22.1	0 59	15.9	...
6	10 0	18.6	10 8	22.1	0 59 41.4	45.9	- 4.5	
7	3 34	17.7	3 36	21.2	0 53 16.3	14.8	+ 1.5	
8	8 23	18.4	8 29	21.8	0 58 4.6	7.2	- 2.6	
9	0 0	17.2	....	....	0 49 42.8	....	...
10	1 29	17.4	1 28	20.8	0 51 11.6	7.2	+ 4.4	
11	10 19	18.6	10 27	22.0	1 0 0.4	5.0	- 4.6	Bluish tinge.
12	+ 3 43	17.7	3 46	21.1	0 53 25.3	24.9	+ 0.4	
13	- 0 24	17.2	....	....	0 49 18.8	....	...
14	+ 7 27	18.3	7 27	21.5	0 57 8.7	5.5	+ 3.2	
15	- 0 20	17.2	....	....	0 49 22.8	....	...
16	+ 8 33	18.4	8 36	21.6	0 58 14.6	14.4	+ 0.2	
17	6 7	18.1	6 8	21.2	0 55 48.9	46.8	+ 2.1	
18	9 29	18.6	9 32	21.7	0 59 10.4	10.3	+ 0.1	
19	8 7	18.4	8 9	21.5	0 57 48.6	47.5	+ 1.1	
20	....	....	0 48	20.2	0 50	27.8	...
21	1 0	17.4	1 2	20.4	0 50 42.6	41.6	+ 1.0	
22	3 40	17.8	3 43	20.8	0 53 22.2	22.2	0.0	
23	2 48	17.7	2 48	20.7	0 52 30.3	27.3	+ 3.0	
24	5 29	18.0	5 31	21.0	0 52 11.0	10.0	+ 1.0	
25	6 58	18.3	6 57	21.2	0 56 39.7	35.8	+ 3.9	
26	9 57	18.7	9 48	21.6	0 59 38.3	26.4	+11.9	
27	....	....	4 2	20.8	0 53	41.2	...
28	3 19	17.8	3 21	20.6	0 53 1.2	0.4	+ 0.8	
29	5 30	18.1	5 33	20.9	0 55 11.9	12.1	- 0.2	
30	4 58	18.0	4 58	20.8	0 54 40.0	37.2	+ 2.8	
31	4 49	18.0	4 48	20.8	0 54 31.0	27.2	+ 3.8	
32	6 57	18.3	6 56	21.0	0 56 38.7	35.0	+ 3.7	
33	7 43	18.4	7 46	21.1	0 57 24.6	24.9	- 0.3	
34	2 16	17.7	2 16	20.4	0 51 58.3	55.6	+ 2.7	
35	7 31	18.4	7 33	21.1	0 57 12.6	11.9	+ 0.7	
36	3 9	17.8	....	....	0 52 51.2	....	...
37	7 6	18.4	....	....	0 56 47.6	....	...
38	6 58	18.4	....	....	0 56 39.6	....	...
39	2 48	17.8	2 48	20.3	0 52 30.2	27.7	+ 2.5	
40	1 20	17.6	....	....	0 51 2.4	....	...
41	10 0	18.8	10 4	21.3	0 59 41.2	42.7	- 1.5	
42	1 1	17.5	1 2	20.0	0 50 43.5	42.0	+ 1.5	
43	8 48	18.6	+ 8 48	-21.1	0 58 29.4	26.9	+ 2.5	
44	0 42	17.5	....	....	0 50 24.5	....	...
45	+ 5 30	-18.2	....	....	+ 0 55 11.8	....	...

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 119.						ZONE 173.						MEAN RIGHT ASCENSION. 1860.0						Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 119.			Zone 173.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.			
46	11-12	10	12	15.1	19.1	15.10	+0.40	10	12	16.1	20.0	16.05	-0.54	10	12	15.50	15.51	-0.01		
47	11		12	40.9	44.9	40.90	0.40		12	41.9	45.9	41.90	0.54		12	41.30	41.36	-0.06		
48	11		13	4.8	8.4	4.00	0.39		.....	.....	.....	.....	.....		13	4.99	.....	.....
49	12-13		13	40.6	44.4	40.50	0.40		13	41.4	45.6	41.50	0.53		13	40.90	40.97	-0.07		
50	13		14	1.8	5.6	1.70	0.39		.....	.....	.....	.....	.....		14	2.09	.....	.....
51	12		14	.....	29.7	25.70	0.40		14	26.9	30.8	26.85	0.53		14	26.10	26.32	-0.22	
52	11-12		14	36.7	40.7	36.70	-0.39		14	37.5	41.7	37.60	0.53		14	37.09	37.07	+0.02		
53	11		15	34.4	38.4	34.40	0.39		15	35.6	39.3	35.45	0.52		15	34.79	34.93	-0.14		
54	12-13		16	42.2	46.1	42.15	0.39		16	43.1	47.1	43.10	0.52		16	42.54	42.58	-0.04		
55	11-12		16	44.1	48.0	44.05	0.39		16	45.3	49.1	45.20	0.51		16	44.44	44.69	-0.25		
56	11-12		17	0.5	4.6	0.55	0.39		.....	.....	.....	.....	.....		17	0.94	.....	.....
57	12		17	52.8	56.8	52.80	0.39		17	54.0	57.7	53.85	0.51		17	53.19	53.34	-0.15		
58	12-13		19	1.1	5.1	1.10	0.39		19	2.2	6.2	2.20	0.51		19	1.49	1.69	-0.20		
59	12		19	18.0	22.0	18.00	0.39		19	19.0	23.0	19.00	0.50		19	18.39	18.50	-0.11		
60	12-13		19	49.1	53.2	49.15	0.38		19	.....	53.9	49.90	0.50		19	49.53	49.40	+0.13	
61	13		20	16.7	20.8	16.75	0.38		20	17.7	.....	17.70	0.50		20	17.13	17.20	-0.07	
62	12		20	39.5	43.4	39.45	0.38		20	40.2	.....	40.20	0.50		20	39.83	39.70	+0.13	
63	12		20	43.0	46.7	42.85	0.38		20	43.7	47.6	43.65	0.49		20	43.23	43.16	+0.07		
64	12		22	18.6	22.4	18.50	0.39		22	19.4	23.2	19.30	0.49		22	18.89	18.81	+0.08		
65	12		22	47.3	51.3	47.30	0.38		22	48.2	52.3	48.25	0.48		22	47.68	47.77	-0.09		
66	11		23	25.6	29.7	25.65	0.38		23	26.4	30.4	26.40	0.48		23	26.03	25.92	+0.11		
67	13		24	13.3	17.3	13.30	0.38		24	14.6	18.5	14.55	0.48		24	13.68	14.07	-0.39		
68	12		25	55.4	59.2	55.30	0.37		25	56.3	60.3	56.30	0.47		25	55.67	55.83	-0.16		
69	10		26	49.2	53.2	49.20	0.37		26	50.1	54.1	50.10	0.47		26	49.57	49.63	-0.06		
70	11-12		27	17.6	21.5	17.55	0.37		27	18.5	22.4	18.45	0.46		27	17.92	17.99	-0.07		
71	12		28	18.0	22.0	18.00	0.36		.....	.....	.....	.....	.....		28	18.36	.....	.....
72	12		28	23.5	27.6	23.55	0.37		28	24.5	28.4	24.45	0.46		28	23.92	23.99	-0.07		
73	12		30	17.7	21.8	17.75	0.36		30	18.6	22.4	18.50	0.45		30	18.11	18.05	+0.06		
74	12		30	34.6	38.4	34.50	0.37		.....	.....	.....	.....	.....		30	34.87	.....	.....
75	10-11		30	49.4	53.4	49.40	0.36		30	50.3	54.3	50.30	0.44		30	49.76	49.86	-0.10		
76	11-12		31	27.2	31.2	27.20	0.36		31	28.3	32.2	28.25	0.44		31	27.56	27.79	-0.23		
77	10-11		33	2.8	6.8	2.80	0.36		33	3.9	7.8	3.85	0.44		33	3.16	3.41	-0.25		
78	12		34	34.6	38.4	34.50	0.36		34	35.5	39.0	35.25	0.43		34	34.86	34.82	+0.04		
79	13		34	47.6	51.9	47.75	0.36		.....	.....	.....	.....	.....		34	48.11	.....	.....
80	12		35	3.0	7.0	3.00	0.36		35	3.9	7.7	3.80	0.42		35	3.36	3.38	-0.02		
81	13		35	4.9	15.9	11.90	0.36		.....	.....	.....	.....	.....		35	12.26	.....	.....
82	12		36	51.9	55.8	51.85	0.35		36	52.7	56.8	52.75	0.41		36	52.20	52.34	-0.14		
83	13		38	9.4	.....	9.40	0.35		38	10.5	.....	10.50	0.41		38	9.75	10.09	-0.34
84	9		38	55.7	59.7	55.70	0.36		38	56.4	60.3	56.35	0.41		38	56.06	55.94	+0.12		
85	10		38	.....	60.6	56.60	0.35		.....	.....	.....	.....	.....		38	56.95	.....	.....
86	11		39	9.4	.....	9.40	0.36		.....	.....	.....	.....	.....		39	9.76	.....	.....
87	11		39	20.2	24.2	20.20	0.36		39	21.1	24.9	21.00	0.41		39	20.56	20.59	-0.03		
88	12		41	4.3	8.3	4.30	0.35		.....	.....	.....	.....	.....		41	4.65	.....	.....
89	12-13		41	30.9	35.3	31.10	0.35		41	32.1	35.9	32.00	0.39		41	31.45	31.61	-0.16		
90	12-13	10	41	52.0	56.1	52.05	+0.36	10	41	52.9	57.0	52.95	-0.39	10	41	52.41	52.56	-0.15		

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.Dec. [°]+0 [']56 to [°]1 [']0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 119.	d.	Zone 173.	d.	Zone 119.	Zone 173.		
46	+ 5 11	-18.1	+ 8 15	-21.0	+ 0 54 52.9	54.0	- 1.1	
47	4 2	18.0	4 45	20.6	0 53 44.0	24.4	+19.6	
48	10 50	18.9	....	....	1 0 31.1	....	...
49	7 1	18.4	7 1	20.7	0 56 42.6	40.3	+ 2.3	
50	8 59	18.7	....	....	0 58 40.3	....	...
51	4 27	18.1	4 28	20.4	0 54 8.9	7.6	+ 1.3	
52	8 29	18.6	8 0	....	0 58 10.4	....	...
53	10 23	18.9	10 28	21.2	1 0 4.1	6.8	- 2.7	
54	7 12	18.5	7 12	20.6	0 56 53.5	51.4	+ 2.1	
55	9 52	18.9	9 42	21.0	0 59 33.1	21.0	+12.1	
56	5 28	18.2	5 29	20.4	0 55 9.8	8.6	+ 1.2	Hazy, Zone 173.
57	6 29	18.4	6 27	20.5	0 56 10.6	6.5	+ 4.1	
58	4 23	18.1	....	....	0 54 4.9	....	...
59	6 23	18.4	6 23	20.4	0 56 4.6	2.6	+ 2.0	
60	6 0	18.3	6 4	20.3	0 55 41.7	43.7	- 2.0	
61	6 42	18.4	6 44	20.4	0 56 23.6	23.6	0.0	
62	5 44	18.3	5 42	20.3	0 55 25.7	21.7	+ 4.0	Cloudy, Zone 173.
63	7 2	18.5	7 5	20.5	0 56 43.5	44.5	- 1.0	
64	0 18	17.5	0 16	19.4	0 49 60.5	56.6	+ 3.9	
65	6 11	18.5	6 12	20.3	0 55 52.5	51.7	+ 0.8	
66	7 0	18.6	7 3	20.4	0 56 41.4	42.6	- 1.2	
67	4 9	18.2	4 10	20.0	0 53 50.8	50.0	+ 0.8	
68	6 59	18.6	6 59	20.3	0 56 40.4	38.7	+ 1.7	
69	3 58	18.2	3 58	19.9	0 53 39.8	38.1	+ 1.7	
70	6 18	18.5	6 14	20.2	0 55 59.5	53.8	+ 5.7	
71	10 19	19.1	....	....	0 59 59.9	....	...
72	4 29	18.3	4 30	19.9	0 54 10.7	10.1	+ 0.6	
73	6 7	18.6	6 10	20.1	0 55 48.4	49.9	- 1.5	
74	3 10	18.1	....	....	0 52 51.9	....	...
75	5 27	18.5	5 27	19.9	0 55 8.5	7.1	+ 1.4	
76	4 20	18.3	4 19	19.7	0 53 61.7	59.3	+ 2.4	
77	2 0	18.0	2 1	19.4	0 51 42.0	41.6	+ 0.4	Comp., n. f.
78	5 33	18.5	5 33	19.8	0 55 14.5	13.2	+ 1.3	
79	4 38	18.4	....	....	0 54 19.6	....	...
80	8 7	18.9	8 6	20.1	0 57 48.1	45.9	+ 2.2	
81	5 49	18.6	....	....	0 55 30.4	....	...
82	9 40	19.1	9 37	20.3	0 59 20.9	16.7	+ 4.2	
83	7 28	18.8	7 27	19.9	0 57 9.2	7.1	+ 2.1	
84	0 19	17.8	0 21	18.9	0 50 1.2	2.1	- 0.9	
85	+ 6 22	18.7	....	....	0 56 3.3	....	...
86	- 0 28	17.7	....	....	0 49 14.3	....	...
87	+ 2 16	17.5	2 12	19.1	0 41 58.5	52.9	+ 5.6	
88	4 4	17.2	....	....	0 42 46.8	....	...
89	4 54	17.1	4 52	19.4	0 45 36.9	32.6	+ 4.3	
90	+ 2 0	-17.5	+ 2 59	-19.2	+ 0 41 42.5	39.8	+ 2.7	

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 119.				ZONE 173.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 119.	Zone 173.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
91	12	10 42 14.0	18.0	14.00	+0.35	10 42 14.8	18.7	14.75	-0.39	10 42 14.35	14.36	-0.01
92	13	43 24.4	28.5	24.45	0.35	43 25.3	....	25.30	0.39	43 24.80	24.91	-0.11
93	13	44 5.6	9.6	5.60	0.35	44	10.1	6.10	0.39	44 5.95	5.71	+0.24
94	10-11	44 44.3	48.3	44.30	0.34	44 45.0	49.0	45.00	0.37	44 44.64	44.63	+0.01
95	10-11	45 41.8	45.8	41.80	0.34	45 42.6	46.5	42.55	0.37	45 42.14	42.18	-0.04
96	13	46 16.3	20.1	16.20	0.34	.....	.....	.....	.....	46 16.54	.....	.....
97	13	46 55.8	59.8	55.80	0.34	46 56.5	60.6	56.55	0.37	46 56.14	56.18	-0.04
98	12	47 32.0	36.0	32.00	0.34	47 32.9	36.7	32.80	0.36	47 32.34	32.44	-0.10
99	..	48 20.6	24.5	20.55	0.34	.....	.....	.....	.....	48 20.89	.....	.....
100	10	48 21.0	25.0	21.00	0.34	48 21.7	25.5	21.60	0.36	48 21.34	21.24	+0.10
101	8	48 27.3	31.2	27.25	0.34	48 28.0	31.9	27.95	0.36	48 27.59	27.59	0.00
102	12	50 21.1	25.2	21.15	0.34	.....	.....	.....	.....	50 21.49	.....	.....
103	13	51 6.9	11.0	6.95	0.34	51 7.6	11.4	7.50	0.35	51 7.29	7.15	+0.14
104	12	51 43.2	47.2	43.20	0.33	.....	.....	.....	.....	51 43.53	.....	.....
105	13	53 5.9	9.7	5.80	0.33	.....	.....	.....	.....	53 6.13	.....	.....
106	12	54 11.8	15.8	11.80	0.32	54 12.6	16.4	12.50	0.32	54 12.12	12.18	-0.06
107	12	54 25.6	29.7	25.65	0.33	54 26.3	30.5	26.40	0.33	54 25.98	26.07	-0.09
108	13	54 38.0	42.0	38.00	0.32	.....	.....	.....	.....	54 38.32	.....	.....
109	10-11	55 42.8	46.8	42.80	0.33	55 43.6	47.4	43.50	0.32	55 43.13	43.18	-0.05
110	10-11	56 26.5	30.5	26.50	0.32	10 56 27.4	31.3	27.35	0.30	56 26.82	26.95	-0.13
111	13	57 32.2	36.2	32.20	0.32	.....	.....	.....	.....	57 32.52	.....	.....
112	12	58 8.2	12.2	8.20	0.32	.....	.....	.....	.....	58 8.52	.....	.....
113	11	58 59.9	64.0	59.95	0.31	.....	.....	.....	.....	59 0.26	.....	.....
114	12	59 39.9	44.0	39.95	0.32	.....	.....	.....	.....	10 59 40.27	.....	.....
115	11	10 59 57.4	61.4	57.40	0.32	.....	.....	.....	.....	11 0 0.72	.....	.....
116	11	11 0 11.1	15.1	11.10	0.31	11 0 11.5	15.5	11.50	0.28	0 11.41	11.22	+0.19
117	12	0 43.1	46.9	43.00	0.32	.....	.....	.....	.....	0 43.32	.....	.....
118	11-12	1 5.2	9.2	5.20	0.31	1 5.6	9.7	5.65	0.28	1 5.51	5.37	+0.14
119	11	1 39.0	43.0	39.00	0.31	1 39.6	43.6	39.60	0.27	1 39.31	39.33	-0.02
120	11-12	3 32.0	36.0	32.00	0.31	3 32.6	36.8	32.70	0.27	3 32.31	32.43	-0.12
121	9	3 43.0	47.0	43.00	0.31	3 43.5	47.6	43.55	0.27	3 43.31	43.28	+0.03
122	13	4 40.8	....	40.80	0.30	.....	.....	.....	.....	4 41.10	.....	.....
123	11	4 46.0	49.8	45.90	0.31	4 46.8	50.4	46.60	0.27	4 46.21	46.33	-0.12
124	9	4 54.6	58.5	54.55	0.30	4 55.1	59.1	55.10	0.26	4 54.85	54.84	+0.01
125	11	5 32.0	36.0	32.00	0.30	5 32.6	36.6	32.60	0.26	5 32.30	32.34	-0.04
126	8-9	5 40.8	44.8	40.80	0.30	5 41.2	45.3	41.25	0.25	5 41.10	41.00	+0.10
127	11	6 7.1	11.0	7.05	0.31	6 7.6	11.5	7.55	0.26	6 7.36	7.29	+0.07
128	11	6 22.1	26.1	22.10	0.30	6 22.9	26.8	22.85	0.26	6 22.40	22.59	-0.19
129	11	6 30.3	34.2	30.25	0.30	6 31.0	34.8	30.90	0.25	6 30.55	30.65	-0.10
130	13	8 19.6	23.5	19.55	0.29	8 20.3	....	20.30	0.24	8 19.84	20.06	-0.22
131	12	8 51.0	54.8	50.90	0.30	8 51.3	55.4	51.35	0.25	8 51.20	51.10	+0.10
132	10-11	11 54.1	58.1	54.10	0.29	11 54.7	58.8	54.75	0.23	11 54.39	54.52	-0.13
133	11-12	12	7.3	3.30	0.29	12 4.1	7.9	4.00	0.22	12 3.59	3.78	-0.19
134	11	12 27.0	30.9	26.95	0.29	11 12 27.8	31.7	27.75	-0.22	12 27.24	27.53	-0.29
135	12	11 12 42.2	46.2	42.20	+0.29	.....	.....	.....	.....	11 12 42.49	.....	.....

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 119.	d.	Zone 173.	d.	Zone 119.	Zone 173.		
91	+ 3 54	-18.4	+ 3 55	-19.3	+ 0 53 38.6	35.7	+ 2.9	
92	3 40	18.4	3 38	19.2	0 53 21.6	18.8	+ 2.8	
93	1 32	18.1	....	....	0 51 13.9	....	...
94	9 25	19.2	9 18	20.0	0 58 65.8	58.0	+ 7.8	
95	4 8	18.4	4 9	19.2	0 53 49.6	49.8	- 0.2	
96	8 3	19.0	....	....	0 57 44.0	....	...
97	1 52	18.1	1 58	18.9	0 51 33.9	39.1	- 5.2	
98	+ 7 22	18.9	7 22	19.6	0 57 3.1	2.4	+ 0.7	
99	- 0 1	17.9	....	....	0 49 41.1	....	...
100	+ 1 41	18.1	0 43	18.6	0 51 22.9	24.4	- 1.5	
101	2 28	18.2	2 26	18.9	0 52 9.8	7.1	+ 2.7	
102	0 17	17.9	....	....	0 49 59.1	....	...
103	0 41	18.0	0 43	18.6	0 50 23.0	24.4	- 1.4	
104	7 30	19.0	....	....	0 57 11.0	....	...
105	0 20	19.4	....	....	0 50 0.6	....	...
106	8 48	19.2	8 48	19.6	0 58 28.8	28.4	+ 0.4	
107	1 38	19.2	1 37	18.6	0 51 18.8	18.4	+ 0.4	
108	7 32	19.0	....	....	0 57 13.0	....	...
109	1 50	18.2	1 47	18.5	0 51 31.8	28.5	+ 3.3	
110	9 59	19.4	9 57	19.6	0 59 39.6	37.4	+ 2.2	
111	1 20	18.2	....	....	0 51 1.8	....	...
112	0 20	18.0	....	....	0 50 2.0	....	...
113	8 59	19.2	....	....	0 58 39.8	....	...	{ Bonn, 10° 58' 33".4 + 0° 55'.0 not in this Zone.
114	3 8	18.4	....	....	0 52 49.6	....	...
115	4 40	18.7	....	....	0 54 21.3	....	...
116	9 5	19.3	9 7	19.4	0 58 45.7	47.6	- 1.9	
117	0 30	18.1	....	....	0 50 11.9	....	...
118	7 18	19.0	7 17	19.1	0 56 59.0	57.9	+ 1.1	
119	10 29	19.5	10 27	19.5	1 0 9.5	7.5	+ 2.0	
120	6 9	18.9	6 8	18.9	0 55 50.1	49.1	+ 1.0	
121	3 48	18.6	3 44	18.5	0 53 29.4	25.5	+ 3.9	
122	5 50	18.9	....	....	0 55 31.1	....	...
123	1 43	18.3	1 41	18.2	0 51 24.7	22.8	+ 1.9	
124	9 12	19.3	9 14	19.2	0 58 52.7	54.8	- 2.1	
125	5 10	18.8	5 9	18.6	0 54 51.2	50.4	+ 0.8	
126	9 16	19.4	9 12	19.2	0 58 56.6	52.8	+ 3.8	
127	2 33	18.4	2 31	18.2	0 52 14.6	12.8	+ 1.8	
128	3 14	18.5	3 12	18.3	0 52 55.5	53.7	+ 1.8	
129	7 25	19.1	7 24	18.9	0 57 5.9	5.1	+ 0.8	
130	9 34	19.4	9 33	19.2	0 59 14.6	13.8	+ 0.8	
131	1 44	18.3	1 41	19.1	0 51 25.7	21.9	+ 3.8	
132	5 1	18.8	5 0	18.4	0 54 42.2	41.6	+ 0.6	
133	8 2	19.3	8 2	18.8	0 57 42.7	43.2	- 0.5	
134	9 45	19.5	+ 9 44	-19.0	0 59 25.5	25.0	+ 0.5	
135	+ 2 40	-18.5	....	....	+ 0 52 21.5	....	...

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 119.					ZONE 173.					MEAN RIGHT ASCENSION. 1860.0					Difference.				
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 119.				Zone 173.			
		h.	m.	s.	s.	s.		h.	m.	s.	s.	s.		h.	m.	s.		s.	s.		
136	12	11	13	35.8	39.8	35.80	+0.28									11	13	36.08	.....	.....
137	11		14	2.8	6.8	2.80	0.29		11	14	3.5	7.3	3.40	-0.22			14	3.09	3.18	-0.09	
138	12		14	26.2	30.3	26.25	0.28			14	27.0	30.8	26.90	0.21			14	26.53	26.69	-0.16	
139	9		14	58.4	62.3	58.85	0.29			14	59.0	63.0	59.00	0.22			14	58.64	58.78	-0.14	
140	11-12		15	28.3	32.3	28.30	0.29			15	29.1	33.0	29.05	0.22			15	28.59	28.83	-0.24	
141	11		15	52.8	56.8	52.80	0.28			15	53.7	57.4	53.55	0.21			15	53.08	53.34	-0.26	
142	12		16	3.6	....	3.60	0.28			....	....	....	....	....			16	3.88	....	....
143	6-7		16	7.4	11.6	7.50	0.28			16	8.0	12.1	8.05	0.21			16	7.78	7.84	-0.06	
144	12		16	....	61.3	57.30	0.29			....	....	....	....	....			16	57.59	....	....
145	11		17	52.3	56.6	52.45	0.28			....	....	....	....	....			17	52.73	....	....
146	12		18	8.6	12.6	8.60	0.27			....	....	....	....	....			18	8.87	....	....
147	12		19	14.4	18.4	14.40	0.27			....	....	....	....	....			19	14.67	....	....
148	12		19	40.7	44.6	40.65	0.28			....	....	....	....	....			19	40.93	....	....
149	12		20	....	56.3	52.30	0.27			....	....	....	....	....			20	52.57	....	....
150	12		21	13.5	17.3	13.40	0.27			....	....	....	....	....			21	13.67	....	....
151	12		22	2.0	6.0	2.00	0.27			....	....	....	....	....			22	2.27	....	....
152	11		22	20.7	24.7	20.70	0.27			22	21.2	25.1	21.15	0.17			22	20.97	20.98	-0.01	
153	12		24	37.1	40.9	37.00	0.27			24	37.5	41.4	37.45	0.17			24	37.27	37.28	-0.01	
154	12		24	55.0	....	55.00	0.26			24	55.3	....	55.30	0.15			24	55.26	55.15	+0.11
155	13		25	35.0	39.0	35.00	0.26			....	....	....	....	....			25	35.26	....	....
156	12		25	53.6	57.6	53.60	0.26			25	....	58.2	54.20	0.15			25	53.86	54.05	-0.19
157	11		26	26.8	30.8	26.80	0.26			26	27.5	31.3	27.40	0.16			26	27.06	27.24	-0.18	
158	11-12		26	56.0	60.1	56.05	0.26			26	56.7	60.7	56.70	0.15			26	56.31	56.55	-0.24	
159	12		27	24.1	28.4	24.25	0.26			....	....	....	....	....			27	24.51	....	....
160	12		27	53.0	57.0	53.00	0.26			27	53.5	57.6	53.55	0.15			27	53.26	53.40	-0.14	
161	9-10		28	36.8	40.8	36.80	0.25			28	37.3	41.4	37.35	0.14			28	37.05	37.21	-0.16	
162	11		28	59.2	63.3	59.25	0.26			28	59.9	63.9	59.90	0.14			28	59.51	59.76	-0.25	
163	12		29	14.1	18.1	14.10	0.25			....	....	....	....	....			29	14.35	....	....
164	12		30	32.8	36.9	32.85	0.25			30	33.3	37.4	33.35	0.13			30	33.10	33.22	-0.12	
165	12-13		32	11.0	15.2	11.10	0.25			....	....	....	....	....			32	11.35	....	....
166	12		32	39.1	43.1	39.10	0.25			32	39.6	....	39.60	0.11			32	39.35	39.49	-0.14
167	12		32	52.3	56.3	52.30	0.25			32	52.8	57.0	52.90	0.12			32	52.55	52.78	-0.23	
168	12		33	39.3	43.3	39.30	0.25			33	39.9	43.8	39.85	0.11			33	39.55	39.74	-0.19	
169	13		34	47.4	51.3	47.35	0.25			....	....	....	....	....			34	47.60	....	....
170	11-12		35	28.3	32.3	28.30	0.25			35	28.8	33.0	28.90	0.11			35	28.55	28.79	-0.24	
171	7-8		36	9.7	13.6	9.65	0.25			36	10.1	14.1	10.10	0.09			36	9.90	10.01	-0.11	
172	11-12		37	0.2	4.1	0.15	0.25			37	0.9	5.0	0.95	0.10			37	0.40	0.85	-0.45	
173	12		38	20.6	24.5	20.55	0.24			....	....	....	....	....			38	20.79	....	....
174	12		40	6.5	10.6	6.55	0.25			....	....	....	....	....			40	6.80	....	....
175	11		40	9.5	13.7	9.60	0.25			40	10.0	14.1	10.05	0.08			40	9.85	9.97	-0.12	
176	12		40	28.9	32.9	28.90	0.24			40	....	33.0	29.00	0.07			40	29.14	28.93	+0.21
177	12		41	3.9	8.0	3.95	0.24			11	41	4.7	8.4	4.55	-0.07			41	4.19	4.48	-0.29
178	12		41	19.4	....	19.40	0.25			....	....	....	....	....			41	19.65	....	....
179	11		44	5.0	8.6	4.80	0.23			....	....	....	....	....			44	5.03	....	....
180	12	11	44	19.8	19.80	+0.24					11	44	20.04

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55Dec. [°]+0 [']50 to [°]1 [']0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 119.	d.	Zone 178.	d.	Zone 119.	Zone 178.		
136	+10 12 ["]	-19.6	+ 0 59 52.4	
137	6 4	19.0	+ 6 2	-18.5	0 55 45.0	43.5	+ 1.5	
138	8 49	19.4	8 48	18.8	0 58 29.6	29.2	+ 0.4	
139	4 6	18.8	4 3	18.2	0 53 47.2	44.8	+ 2.4	
140	1 40	18.4	1 38	17.8	0 51 21.6	20.2	+ 1.4	
141	4 51	18.9	4 53	18.3	0 54 32.1	34.7	- 2.6	{ Bonn, 11 ^h 17 ^m 36 ^s .6 +0° 54'.4 not in this Zone.
142	3 1	18.6	.....	.....	0 52 42.4	.....	...
143	4 18	18.8	4 18	18.3	0 53 59.2	59.7	- 0.5	
144	0 56	18.4	.....	.....	0 50 37.6	.....	...
145	3 27	18.7	3 24	18.0	0 53 8.3	6.0	+ 2.3	
146	9 51	19.7	0 59 31.3	Bright moonlight, Zone 119.
147	9 0	19.6	8 59	18.7	0 58 40.4	40.3	+ 0.1	
148	2 5	18.6	2 9	17.7	0 51 46.4	51.3	- 4.9	
149	10 40	19.8	.....	.....	1 0 20.2	.....	...
150	3 18	18.8	.....	.....	0 52 59.2	.....	...
151	2 30	18.7	0 52 11.3	
152	10 13	19.8	10 10	18.8	0 59 53.2	51.2	+ 2.0	
153	0 29	18.4	0 38	17.3	0 50 10.6	20.7	-10.1	
154	10 2	19.7	10 0	18.6	0 59 42.3	41.4	+ 0.9	
155	7 10	19.4	.....	.....	0 56 50.6	.....	...
156	7 3	19.4	7 1	18.2	0 56 43.6	42.8	+ 0.8	
157	2 58	18.8	2 52	17.6	0 52 39.2	34.4	+ 4.8	
158	4 45	19.0	4 41	17.9	0 54 26.0	23.1	+ 2.9	
159	1 27	18.6	.....	.....	0 51 8.4	.....	...
160	5 50	19.2	5 45	18.0	0 55 30.8	27.0	+ 3.8	
161	9 20	19.7	9 18	18.4	0 59 0.3	59.6	+ 0.7	Comp., s. p. ¹
162	6 0	19.2	5 55	18.0	0 55 40.8	37.0	+ 3.8	
163	8 39	19.6	.....	.....	0 58 19.4	.....	...
164	6 12	19.3	6 8	17.9	0 55 52.7	50.1	+ 2.6	
165	9 36	19.8	.....	.....	0 59 16.2	.....	...
166	9 11	19.7	0 58 51.3	Double?
167	4 48	19.1	4 46	17.6	0 54 28.9	28.4	+ 0.5	
168	4 21	19.0	4 23	17.6	0 54 2.0	5.4	- 3.4	
169	8 0	19.5	.....	.....	0 57 40.5	.....	...
170	3 15	18.9	3 13	17.3	0 52 56.1	55.7	+ 0.4	
171	8 6	19.6	8 4	18.0	0 57 46.4	46.0	+ 0.4	
172	3 27	19.0	3 24	17.3	0 53 8.0	6.7	+ 1.3	
173	8 18	19.6	.....	.....	0 57 58.4	.....	...
174	4 15	19.1	.....	.....	0 53 55.9	.....	...
175	3 10	18.9	3 9	17.1	0 52 51.1	51.9	- 0.8	
176	9 20	19.8	0 59 0.2	Moon very troublesome, Zone 119.
177	+ 7 50	19.6	+ 7 48	-17.8	0 57 30.4	30.2	+ 0.2	
178	- 0 8	18.5	.....	.....	0 49 33.5	.....	...
179	+10 18	20.0	.....	.....	0 59 58.0	.....	...
180	+ 4 11	-19.1	.....	.....	+ 0 53 51.9	.....	...

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.Dec. [°]+0 50 to [°]1 0.

Number of the Star.	Magnitude.	ZONE 119.					ZONE 173.					MEAN RIGHT ASCENSION. 1860.0			Difference.			
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 119.	Zone 173.					
		h.	m.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.	s.		s.	s.	
181	10-11	11	45	51.2	55.3	51.25	+0.24	.....	.....	.....	.....	11	45	51.49	.....	.....
182	10-11		47	16.1	20.1	16.10	0.23	11	47	16.6	20.6	16.60	-0.04	47	16.33	16.56	-0.23	
183	10-11		47	54.5	58.4	54.45	0.23		47	55.0	59.0	55.00	0.03	47	54.68	54.97	-0.29	
184	11		48	5.2	9.2	5.20	0.22		48	5.7	9.6	5.65	0.02	48	5.42	5.63	-0.21	
185	11		48	25.8	29.8	25.80	0.22		48	26.1	30.4	26.25	0.02	48	26.02	26.23	-0.21	
186	11		48	41.9	45.8	41.85	0.22		48	42.2	46.3	42.25	0.02	48	42.07	42.23	-0.16	
187	11		49	38.8	42.8	38.80	0.23		49	39.3	43.3	39.30	0.03	49	39.03	39.27	-0.24	
188	10-11		50	13.4	17.5	13.45	0.23		50	13.9	17.8	13.85	0.02	50	13.68	13.83	-0.15	
189	11		50	58.3	62.3	58.30	0.22		50	59.0	63.0	59.00	0.01	50	58.52	58.99	-0.42	
190	11-12		51	40.5	44.4	40.45	0.23		51	40.9	44.6	40.75	0.02	51	40.68	40.73	-0.05	
191	12		51	47.7	51.7	47.70	0.23		.....	.....	.....	.....	51	47.43	.....	.....
192	11		52	10.2	14.2	10.20	0.22		52	11.0	14.8	10.90	-0.01	52	10.42	10.89	-0.47	
193	10		52	22.6	26.6	22.60	0.22		52	22.9	26.9	22.90	0.00	52	22.82	22.90	-0.08	
194	9		54	46.6	50.7	46.65	0.22		54	47.1	.....	47.10	0.00	54	46.87	47.10	-0.23
195	9		54	47.1	51.1	47.10	0.22		54	.....	51.2	47.20	0.00	54	47.32	47.20	+0.12
196	10	11	55	17.0	21.0	17.00	+0.21	11	55	17.2	21.2	17.20	+0.01	11	55	17.21	17.21	0.00

A.R. ^{h.}9 ^{m.}44 to ^{h.}11 ^{m.}55.Dec. +^o50' to ⁱ0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 119.	d.	Zone 173.	d.	Zone 119.	Zone 173.		
181	+ 0 4	-18.6	.....	....	+ 0 49 45.4	....	...
182	3 41	19.1	+ 3 39	-17.0	0 53 21.9	22.0	- 0.1	
183	4 52	19.3	4 48	17.2	0 54 32.7	30.8	+ 1.9	
184	9 40	19.9	9 37	18.1	0 59 20.1	18.9	+ 1.2	
185	8 9	19.7	8 6	17.6	0 57 49.3	48.4	+ 0.9	
186	8 20	19.7	8 17	17.6	0 57 60.3	59.4	+ 0.9	
187	1 53	18.9	1 52	16.7	0 51 34.1	35.3	- 1.2	
188	4 7	19.2	4 6	17.0	0 53 47.8	49.0	- 1.2	
189	7 45	19.7	7 44	17.4	0 57 25.3	26.6	- 1.3	
190	0 40	18.7	0 38	16.4	0 50 21.3	21.6	- 0.3	
191	1 9	18.8	.....	....	0 50 50.2	....	...
192	2 20	18.9	2 18	16.6	0 52 1.1	1.4	- 0.3	
193	7 0	19.6	7 1	17.3	0 56 40.4	43.7	- 3.3	
194	2 1	18.9	2 0	16.5	0 51 42.1	43.5	- 1.4	
195	3 16	19.1	3 16	16.6	0 52 56.9	59.4	- 2.5	
196	+ 7 31	-19.7	+ 7 32	-17.2	+ 0 57 11.3	14.8	- 3.5	

ZONE OBSERVATIONS.

A.R. $\overset{h.}{12} \overset{m.}{0}$ to $\overset{h.}{14} \overset{m.}{10}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 120.					ZONE 121.				MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 120.		Zone 121.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	
1	12-13	12 0 1.6	5.6	1.60	+0.31		12 0 1.4	5.6	1.50	+0.15		12 0 1.91	1.65	+0.26	
2	12	0 28.0	32.0	28.00	0.30		0 27.8	31.9	27.85	0.14		0 28.30	27.99	+0.31	
3	11	0 38.3	42.1	38.20	0.32		0 38.4	42.3	38.35	0.15		0 38.62	38.50	+0.12	
4	11	1 6.8	10.8	6.80	0.30		1 6.7	10.9	6.80	0.14		1 7.10	6.94	+0.16	
5	10	1 14.3	18.5	14.40	0.31		1 14.4	18.4	14.40	0.15		1 14.71	14.55	+0.16	
6	11-12	2 19.5	23.5	19.50	0.30		2 19.6	23.5	19.55	0.14		2 19.80	19.69	+0.11	
7	11-12	3 40.2	44.1	40.25	0.31		3 40.3	44.3	40.30	0.14		3 40.56	40.44	+0.12	
8	11-12	5 24.5	28.6	24.55	0.29		5 24.6	28.5	24.55	0.13		5 24.84	24.68	+0.16	
9	12-13	6 25.8	29.8	25.80	0.29		6 26.2	30.0	26.10	0.13		6 26.09	26.23	-0.14	
10	11-12	6 55.9	59.9	55.90	0.29		6 55.9	59.8	55.85	0.13		6 56.19	55.98	+0.21	
11	12-13	7 35.7	39.9	35.80	0.28		7 36.0	40.1	36.05	0.13		7 36.08	36.18	-0.10	
12	11-12	8 3.8	7.7	3.75	0.29		8 3.9	8.0	3.95	0.13		8 4.04	4.08	-0.04	
13	12	8 37.8	41.8	37.80	0.29		8 37.8	....	37.80	0.13		8 38.09	37.93	+0.16	
14	9	10 10.6	14.6	10.60	0.28		10 10.7	14.9	10.80	0.13		10 10.88	10.93	-0.05	
15	10-11	10 13.8	17.7	13.85	0.28		10 13.9	17.8	13.85	0.12		10 14.13	13.97	+0.16	
16	9	10 30.4	34.3	30.35	0.29		10 30.6	34.6	30.60	0.13		10 30.64	30.73	-0.09	
17	10	11 37.0	41.0	37.00	0.27		11 37.0	41.0	37.00	0.12		11 37.27	37.12	+0.15	
18	10	11 38.5	42.5	38.50	0.28		11 38.7	42.7	38.70	0.12		11 38.78	38.82	-0.04	
19	11	12 40.1	44.1	40.10	0.28		12 40.5	44.2	40.35	0.12		12 40.38	40.47	-0.09	
20	12	13 20.3	24.4	20.35	0.28		13 20.8	24.7	20.75	0.12		13 20.63	20.87	-0.24	
21	12	14 43.3	47.2	43.25	0.27		14 43.3	47.4	43.35	0.11		14 43.52	43.46	+0.06	
22	11-12	15 5.6	9.6	5.60	0.27		15 5.7	9.8	5.75	0.11		15 5.87	5.86	+0.01	
23	10	15 17.8	21.7	17.75	0.27		15 18.0	21.9	17.95	0.11		15 18.02	18.06	-0.04	
24	10-11	16 32.2	36.0	32.10	0.28		16 32.2	36.2	32.20	0.11		16 32.38	32.31	+0.07	
25	12	17 41.2	45.1	41.15	0.26		17 41.2	45.3	41.25	0.10		17 41.41	41.35	+0.06	
26	12	18 26.8	30.9	26.85	0.27		18 27.0	30.9	26.95	0.10		18 27.12	27.05	+0.07	
27	12-13	19	6.4	2.40	0.26		19 2.8	6.8	2.80	0.10		19 2.66	2.90	-0.24	
28	12	20	44.9	40.90	0.27		....	....	....	....		20 41.17	....	....
29	12	21 27.6	....	27.60	0.27		21	31.5	27.50	0.09		21 27.87	27.59	+0.28	
30	11-12	22	14.1	10.10	0.26		22 10.2	14.3	10.25	0.09		22 10.36	10.34	+0.02	
31	10-11	22 17.2	....	17.20	0.27		22 17.3	21.2	17.25	0.09		22 17.47	17.34	+0.13	
32	10-11	23 16.8	20.9	16.85	0.24		23 16.8	20.9	16.85	0.08		23 17.09	16.93	+0.16	
33	10	23 30.1	34.1	30.10	0.24		23 30.0	34.1	30.05	0.08		23 30.34	30.13	+0.21	
34	12	24 0.3	4.5	0.40	0.25		24	4.5	0.50	0.08		24 0.65	0.58	+0.07	
35	12	21 1.1	5.0	1.05	0.25		24 0.9	5.1	1.00	0.08		24 1.30	1.08	+0.22	
36	11	24 26.9	30.7	26.80	0.26		24 27.1	31.1	27.10	0.09		24 27.06	27.19	-0.13	
37	11-12	25 39.0	43.1	39.05	0.26		25 39.4	43.1	39.25	0.08		25 39.31	39.33	-0.02	
38	12	26 22.3	26.3	22.30	0.25		26 22.3	26.4	22.35	0.08		26 22.55	22.43	+0.12	
39	..	26 49.4	53.8	49.60	0.24		26 49.5	53.2	49.35	0.07		26 49.84	49.42	+0.42	
40	11	27 16.9	20.8	16.85	0.24		27 17.1	20.9	17.00	0.07		27 17.09	17.07	+0.02	
41	12	27 18.5	22.3	18.40	0.24		27 18.5	22.4	18.45	0.08		27 18.64	18.53	+0.11	
42	11	27 29.8	33.6	29.70	0.24		27 29.9	33.7	29.80	0.07		27 29.94	29.87	+0.07	
43	11	28 14.0	18.1	14.05	0.24		28 14.0	18.1	14.05	0.07		28 14.29	14.12	+0.17	
44	12	29 53.1	57.1	53.10	0.25		29 53.0	57.0	53.00	0.07		29 53.35	53.07	+0.28	
45	10-11	12 29 58.3	62.3	58.30	+0.24		12 29	62.4	58.40	+0.07		12 29 58.54	58.47	+0.07	

A.R. $\overset{h.}{12} \overset{m.}{0}$ to $\overset{h.}{14} \overset{m.}{10}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 120.	d.	Zone 121.	d.	Zone 120.	Zone 121.		
1	+ 5 18	-10.1	+ 5 12	- 5.2	+ 0 45 7.9	6.8	+ 1.1	
2	2 20	9.6	2 15	4.7	0 42 10.4	10.3	+ 0.1	
3	....	...	10 22	5.6	0 50	16.4	...	
4	0 52	9.2	0 49	4.7	0 40 42.8	44.3	- 1.5	
5	7 51	9.4	7 48	5.3	0 47 41.6	42.7	- 1.1	
6	1 5	9.2	1 1	4.7	0 40 55.8	56.3	- 0.5	
7	7 8	9.1	7 4	5.1	0 46 58.9	58.9	0.0	
8	1 19	9.0	1 14	4.5	0 41 10.0	9.5	+ 0.5	No star above 14th mag.
9	3 48	9.0	3 41	4.7	0 43 39.0	36.3	+ 2.7	
10	4 39	9.0	4 31	4.8	0 44 30.0	26.2	+ 3.8	
11	1 49	8.9	1 41	4.5	0 41 40.1	36.5	+ 3.6	Another star preceding, same dec.
12	8 3	8.9	7 59	5.0	0 47 54.1	54.0	+ 0.1	
13	5 33	8.9	5 29	4.8	0 45 24.1	24.2	- 0.1	
14	6 26	8.8	6 21	4.8	0 46 17.2	16.2	+ 1.0	
15	5 27	8.8	5 21	4.7	0 45 18.2	16.3	+ 1.9	
16	9 0	8.8	8 55	5.0	0 48 51.2	50.0	+ 1.2	
17	0 29	8.6	0 23	4.1	0 40 20.4	18.9	+ 1.5	
18	7 39	8.7	7 33	4.8	0 47 30.3	28.2	+ 2.1	
19	10 18	8.7	10 11	5.0	0 50 9.3	6.0	+ 3.3	
20	6 3	8.6	8 0	4.8	0 47 54.4	55.2	- 0.8	
21	6 24	8.5	6 20	4.6	0 46 15.5	15.4	+ 0.1	
22	6 49	8.5	6 42	4.6	0 46 40.5	37.4	+ 3.1	Comp., s. f.
23	3 9	8.5	3 4	4.3	0 42 60.5	59.7	+ 0.8	
24	10 23	8.5	10 19	4.9	0 50 14.5	14.1	+ 0.4	
25	4 50	8.4	4 42	4.3	0 44 41.6	37.7	+ 3.9	
26	8 52	8.4	8 48	4.7	0 48 43.6	43.3	+ 0.3	
27	4 58	8.3	4 52	4.3	0 44 49.7	47.7	+ 2.0	
28	10 8	8.3	....	...	0 49 59.7	....	...
29	8 33	8.2	8 30	4.5	0 48 24.8	25.5	- 0.7	
30	3 19	8.1	3 17	4.0	0 43 10.9	13.0	- 2.1	
31	9 24	8.2	9 20	4.5	0 49 15.8	15.5	+ 0.3	
32	0 17	8.0	0 10	3.6	0 40 9.0	6.4	+ 2.6	
33	0 29	8.0	0 21	3.6	0 40 21.0	17.4	+ 3.6	
34	....	...	7 20	4.3	0 47	24.7	...	Scale indistinct, Zone 120.
35	4 51	8.0	4 47	4.0	0 44 43.0	43.0	0.0	
36	9 21	8.1	9 20	4.4	0 49 12.9	15.6	- 2.7	
37	9 50	8.0	9 46	4.4	0 49 42.0	41.6	+ 0.4	
38	6 5	7.9	6 0	4.0	0 45 57.1	56.0	+ 1.1	
39	2 18	7.8	2 16	3.7	0 42 10.2	12.3	- 2.1	
40	3 28	7.8	3 21	4.1	0 43 20.2	16.9	+ 3.3	
41	3 50	7.8	0 40	4.2	0 43 42.2	35.8	+ 6.4	
42	3 9	7.8	3 10	3.8	0 43 1.2	6.2	- 5.0	
43	5 20	7.8	5 14	3.9	0 45 12.2	10.1	+ 2.1	
44	8 50	7.7	8 42	4.1	0 48 42.3	37.9	+ 4.4	
45	+ 5 22	- 7.7	+ 5 19	- 3.8	+ 0 45 14.3	15.2	- 0.9	

ZONE OBSERVATIONS.

A.R. $12^{\text{h}} 0^{\text{m}}$ to $14^{\text{h}} 10^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 120.				ZONE 121.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 120.	Zone 121.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	
46	12	12 30 9.7	13.7	9.70	+0.25	12 30 9.6	13.7	9.65	+0.08	12 30 9.95	9.73	+0.22
47	12	30 57.4	61.3	57.35	0.23	30 57.5	61.0	57.25	0.06	30 57.58	57.31	+0.27
48	12	31 27.3	31.0	27.15	0.24	31 27.4	31.2	27.30	0.06	31 27.39	27.36	+0.03
49	11	31 44.1	48.1	44.10	0.23	31 44.4	48.2	44.30	0.06	31 44.33	44.36	-0.03
50	11	31 54.6	58.6	54.60	0.23	31 54.6	58.8	54.70	0.06	31 54.83	54.76	+0.07
51	..	33 38.9	43.0	38.95	0.24	33 39.0	43.0	39.00	0.06	33 39.19	39.06	+0.13
52	..	.....	.....	.....	.....	33 60.0	63.7	59.85	0.06	33	59.91	.....
53	12	34 18.8	22.7	18.75	0.23	34 19.6	23.8	19.70	0.06	34 18.98	19.76	-0.78
54	11	35 22.3	26.4	22.35	0.23	.....	.....	.....	.....	35 22.58	.....	.....
55	11	35 56.0	60.1	56.05	0.23	35 56.2	60.1	56.15	0.05	35 56.28	56.20	+0.08
56	11	35 56.8	60.8	56.80	0.23	35 57.0	60.9	56.95	0.05	35 57.03	57.00	+0.03
57	12	37 7.3	11.2	7.25	0.24	37 7.4	11.2	7.30	0.06	37 7.49	7.36	+0.13
58	11-12	38 6.3	10.2	6.25	0.23	38 6.7	10.5	6.60	0.05	38 6.48	6.65	-0.17
59	11	39 6.2	12.3	8.25	0.22	39 8.4	12.3	8.35	0.04	39 8.47	8.39	+0.08
60	..	39 42.5	46.6	42.55	0.21	39 42.2	46.4	42.30	0.03	39 42.76	42.33	+0.43
61	11	40 0.1	4.0	0.05	0.21	.....	.....	.....	.....	40 0.26	.....	.....
62	12	40 36.7	40.6	36.65	0.23	40 36.8	40.6	36.70	0.05	40 36.88	36.75	+0.13
63	12	41 46.1	50.0	46.05	0.21	41 46.2	50.0	46.10	0.03	41 46.26	46.13	+0.13
64	12	42 18.0	....	18.00	0.22	42 18.2	22.5	18.35	0.05	42 18.22	18.40	-0.18
65	12	42 55.0	58.8	54.90	0.22	42 54.9	58.7	54.80	0.04	42 55.12	54.84	+0.28
66	12	43 4.7	8.7	4.70	0.21	43 4.5	8.5	4.50	0.03	43 4.91	4.53	+0.38
67	12	43 26.9	31.0	26.95	0.21	43 27.1	31.0	27.05	0.03	43 27.16	27.08	+0.08
68	12	43 30.0	33.9	29.95	0.22	43 30.2	34.1	30.05	0.04	43 30.17	30.09	+0.08
69	10	44 2.0	6.0	2.00	0.21	44 2.4	6.2	2.30	0.03	44 2.21	2.33	-0.12
70	12	.....	.....	.....	.....	45 9.7	13.7	9.70	0.04	45	9.74	.....
71	12	45	15.0	11.00	0.21	45 11.3	15.1	11.20	0.03	45 11.21	11.23	-0.02
72	12	45 47.7	51.8	47.75	0.21	45 47.9	51.6	47.75	0.03	45 47.96	47.78	+0.18
73	13	46 41.8	45.5	41.65	0.21	46 41.7	46.1	41.90	0.03	46 41.86	41.93	-0.07
74	12	47 16.2	19.8	16.00	0.22	.....	.....	.....	.....	47 16.22	.....	.....
75	12	47 47.2	51.3	47.25	0.20	47 47.3	51.6	47.45	0.02	47 47.45	47.47	-0.02
76	12	48 19.1	....	19.10	0.21	48 19.5	23.5	19.50	0.03	48 19.31	19.53	-0.22
77	8	48 25.5	29.6	25.55	0.21	48 25.9	29.8	25.85	0.03	48 25.76	25.88	-0.12
78	11-12	50 27.8	31.8	27.80	0.21	50 28.0	32.0	28.00	0.03	50 28.01	28.03	-0.02
79	12	51 8.4	12.5	8.45	0.20	51 8.7	12.7	8.70	0.02	51 8.65	8.72	-0.07
80	10-11	53 38.8	42.9	38.85	0.20	.....	.....	.....	.....	53 39.05	.....	.....
81	12	53	47.7	43.70	0.19	53 44.1	48.0	44.05	0.01	53 43.89	44.06	-0.17
82	11	.....	.....	.....	.....	54 43.5	47.6	43.55	0.00	54	43.55	.....
83	..	.....	.....	.....	.....	54 57.2	61.2	57.20	0.01	54	57.21	.....
84	..	.....	.....	.....	.....	55 12.7	16.8	12.75	+0.01	55	12.76	.....
85	10	56 10.8	14.8	10.80	0.17	56 10.6	....	10.60	-0.01	56 10.97	10.59	+0.38
86	..	5 .....	.....	.....	.....	56 11.9	15.5	11.70	0.02	56	11.68	.....
87	..	57 53.1	57.2	53.15	0.18	57	57.8	53.80	0.00	57 53.33	53.80	-0.47
88	..	57 55.5	59.2	55.35	0.18	57 55.6	59.7	55.65	0.01	57 55.53	55.64	-0.11
89	..	57 56.3	60.2	56.25	0.18	57 56.3	60.9	56.60	0.00	57 56.43	56.60	-0.17
90	..	12 58 36.8	40.8	36.80	+0.17	12 58 37.0	41.2	37.10	-0.01	12 58 36.97	37.09	-0.12

A.R. ^{h.}12 ^{m.}0 to ^{h.}14 ^{m.}10.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 120.	d.	Zone 121.	d.	Zone 120.	Zone 121.		
46	+ 9 0	- 8.9	....	...	+ 0 48 51.1	....	...
47	1 29	7.8	+ 1 22	- 3.4	0 41 21.2	18.6	+ 2.6	
48	4 30	8.2	4 29	3.6	0 44 21.8	25.4	- 3.6	
49	3 13	8.0	3 11	3.5	0 43 5.0	7.5	- 2.5	
50	2 0	7.8	1 56	3.4	0 41 52.2	52.6	- 0.4	
51	....	...	6 42	3.7	0 46	38.3	...	
52	....	...	5 50	3.6	0 45	46.4	...	
53	6 3	8.3	6 0	3.6	0 45 54.7	56.4	- 1.7	
54	7 20	8.4	7 20	3.7	0 47 11.6	16.3	- 4.7	
55	6 31	8.2	6 27	3.6	0 46 22.8	23.4	- 0.6	
56	6 22	8.2	6 19	3.6	0 46 13.8	15.4	- 1.6	
57	10 9	8.7	10 10	3.8	0 50 0.3	6.2	- 5.9	
58	7 58	8.3	7 51	3.6	0 47 49.7	47.4	+ 2.3	
59	3 17	8.6	3 15	3.2	0 43 8.4	11.8	- 3.4	
60	+ 0 22	7.1	0 20	2.9	0 40 14.9	17.1	- 2.2	
61	- 0 13	7.0	....	...	0 39 40.0	....	...
62	+ 9 53	8.5	9 51	3.7	0 49 44.5	47.3	- 2.8	
63	2 40	7.3	....	...	0 42 32.7	....	...
64	9 50	8.4	....	...	0 49 41.6	....	...
65	7 52	8.0	7 49	3.4	0 47 44.0	45.6	- 1.6	
66	2 5	7.1	2 0	2.9	0 41 57.9	57.1	+ 0.8	
67	2 49	7.2	2 42	2.9	0 42 41.8	39.1	+ 2.7	
68	7 8	7.9	7 2	3.3	0 47 0.1	58.7	+ 1.4	{ Star 12 ^h 43 ^m 17 ^s .4 +0°45'8 Bonn, not here.
69	5 10	7.3	5 7	3.1	0 45 2.7	3.9	- 1.2	
70	7 47	7.9	7 37	3.3	0 47 39.1	33.7	+ 5.4	
71	3 43	7.2	3 40	2.9	0 43 35.8	37.1	- 1.3	
72	3 53	7.2	3 49	2.9	0 43 45.8	46.1	- 0.3	
73	8 8	7.8	....	...	0 48 0.2	....	...
74	10 10	8.1	....	...	0 50 1.9	....	...
75	1 30	6.7	1 27	2.6	0 41 23.3	24.4	- 1.1	
76	9 51	8.0	9 40	3.4	0 49 43.0	36.6	+ 6.4	
77	9 27	7.9	9 21	3.3	0 49 19.1	17.7	+ 1.4	
78	7 37	7.5	7 35	3.1	0 47 29.5	31.9	- 2.4	
79	5 41	7.1	5 38	2.8	0 45 33.9	35.2	- 1.3	
80	9 54	7.7	9 51	3.1	0 49 46.3	47.9	- 1.6	{ Between Nos. 80 and 81 a faint neb- ula, 50'' in diameter, showing a slight condensation on n. p. side. H. II. 517.
81	5 51	7.1	5 50	2.7	0 45 43.9	47.3	- 3.4	
82	+ 1 0	6.3	0 59	2.3	0 40 53.7	56.7	- 3.0	
83	....	...	8 39	2.9	0 48	36.1	...	
84	....	...	+ 8 0	2.9	0 47	57.1	...	
85	- 0 7	- 6.1	- 0 12	2.1	0 39 46.9	45.9	+ 1.0	
86	....	...	+ 4 0	2.5	0 43	57.5	...	No star above 14th mag.
87	....	...	8 8	2.7	0 48	5.3	...	
88	....	...	5 43	2.5	0 45	40.5	...	
89	....	...	8 49	2.8	0 48	46.2	...	
90	....	...	+ 3 0	- 2.2	+ 0 42	57.8	...	

ZONE OBSERVATIONS.

A.R. $\overset{h.}{12} \overset{m.}{0}$ to $\overset{h.}{14} \overset{m.}{10}$.

Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 120.				ZONE 121.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 2d Wire.	z.	Zone 120.	Zone 121.	
91	..	h. m. s. 12 59 0.3	s. 4.3	s. 0.30	+0.17	h. m. s. 12 59 0.2	s. 4.3	s. 0.25	-0.02	h. m. s. 12 59 0.47	s. 0.23	s. +0.24
92	10	59 15.7	19.6	15.65	0.18	59 16.1	20.0	16.05	0.01	59 15.83	16.04	-0.21
93	11	12 59	21.3	17.30	0.17	12 59 17.4	21.5	17.45	0.01	12 59 17.47	17.44	+0.03
94	11	13 0 23.3	27.4	23.35	0.18	13 0 23.4	27.5	23.45	0.01	13 0 23.53	23.44	+0.09
95	9	0 44.2	48.2	44.20	0.18	0 44.6	48.4	44.50	0.01	0 44.38	44.49	-0.11
96	12	1 20.1	24.1	20.10	0.17	1 20.4	24.4	20.40	0.02	1 20.27	20.38	-0.11
97	12	1 32.9	36.6	32.75	0.16	1 32.9	36.5	32.70	0.02	1 32.91	32.68	+0.23
98	9	2 13.5	17.8	13.65	0.16	.....	.....	.....	.....	2 13.81	.....	.....
99	11	2	24.2	20.20	0.17	2 20.7	24.9	20.80	0.02	2 20.37	20.78	-0.41
100	10-11	2 41.7	45.7	41.70	0.17	2 41.8	45.7	41.75	0.02	2 41.87	41.73	+0.14
101	11	3 42.0	46.1	42.05	0.15	3 42.1	46.1	42.10	0.03	3 41.90	42.07	-0.17
102	12	3 50.9	55.1	51.00	0.15	.....	.....	.....	.....	3 51.15	.....	.....
103	12	4 28.3	32.7	28.50	0.16	4 29.0	32.9	28.95	0.03	4 28.66	28.92	-0.26
104	12	5 14.7	18.9	14.80	0.16	5 14.8	18.9	14.85	0.03	5 14.96	14.82	+0.14
105	12	6 33.6	37.9	33.75	0.15	6 34.0	37.8	33.90	0.04	6 33.90	33.86	+0.04
106	10	6 47.0	51.1	47.05	0.15	6 47.2	51.3	47.25	0.04	6 47.20	47.21	-0.01
107	11	7	19.2	15.20	0.16	7 15.4	19.4	15.40	0.04	7 15.36	15.36	0.00
108	11	7 16.0	20.0	16.00	0.16	7 16.2	20.2	16.20	0.04	7 16.16	16.16	0.00
109	10	7 27.1	31.0	27.05	0.15	7	31.2	27.20	0.04	7 27.20	27.16	+0.04
110	10	8 9.9	13.8	9.85	0.15	8 10.0	14.0	10.00	0.04	8 10.00	9.96	+0.04
111	11	10	4.7	0.70	0.14	10 0.8	4.6	0.70	0.05	10 0.84	0.65	+0.19
112	12	10 27.5	31.1	27.30	0.15	10 27.6	31.3	27.45	0.05	10 27.45	27.40	+0.05
113	10	11 6.2	10.3	6.25	0.15	11 6.3	10.2	6.25	0.05	11 6.10	6.20	-0.10
114	10	11 48.6	52.7	48.65	0.15	11 48.3	52.1	48.20	0.05	11 48.80	48.15	+0.65
115	10	12 4.6	8.6	4.60	0.14	12 4.8	8.7	4.75	0.06	12 4.74	4.69	+0.05
116	12	13 40.3	44.2	40.25	0.13	13 40.4	44.3	40.35	0.06	13 40.38	40.29	+0.09
117	12	13 59.4	63.7	59.55	0.14	13	63.8	59.80	0.06	13 59.69	59.74	-0.05
118	8-9	14 55.0	58.9	54.95	0.13	14 55.1	.....	55.10	0.06	14 55.08	55.04	+0.04
119	12	15 28.2	32.2	28.20	0.13	15 28.5	32.4	28.45	0.07	15 28.33	28.38	-0.05
120	11-12	16 10.7	14.8	10.75	0.14	16 11.0	14.9	10.95	0.06	16 10.89	10.89	0.00
121	12	18 30.8	34.9	30.85	0.14	.....	.....	.....	.....	18 30.99	.....	.....
122	12	19 46.9	51.1	47.00	0.12	19 47.3	51.2	47.25	0.08	19 47.12	47.17	-0.05
123	11-12	20 11.1	15.2	11.15	0.14	20 11.5	15.5	11.50	0.07	20 11.29	11.43	-0.14
124	11	21 35.4	39.2	35.30	0.12	21 35.4	39.4	35.40	0.08	21 35.42	35.32	+0.10
125	12	22 10.7	14.7	10.70	0.12	22 11.1	14.9	11.00	0.08	22 10.82	10.92	-0.10
126	11	22 35.2	39.1	35.15	0.13	22 35.6	39.4	35.50	0.08	22 35.28	35.42	-0.14
127	12	23 23.9	28.0	23.95	0.11	23 23.9	28.1	24.00	0.09	23 24.06	23.91	+0.15
128	..	.....	.....	.....	.....	24 30.1	33.9	30.00	0.09	24	29.91	.....
129	11	24 53.6	57.5	53.55	0.11	24 53.8	58.0	53.90	0.09	24 53.66	53.81	-0.15
130	12	25 22.7	26.7	22.70	0.11	25 23.0	26.9	22.95	0.09	25 22.81	22.86	-0.05
131	12	.....	.....	.....	.....	25 49.8	53.7	49.75	0.09	25	49.66	.....
132	11	26 50.7	54.5	50.60	0.13	26 50.8	.....	50.80	0.08	26 50.73	50.72	+0.01
133	10-11	26 58.6	.....	58.60	0.12	26 58.8	62.6	58.70	0.08	26 58.72	58.62	+0.10
134	11	26	62.8	58.80	0.13	26 59.2	63.0	59.10	0.08	26 58.93	59.02	-0.09
135	12	13 28 37.7	41.6	37.65	+0.11	13 28 38.1	42.0	38.05	-0.09	13 28 37.76	37.96	-0.20

A.R. ^{h.}12 ^{m.}0 to ^{h.}14 ^{m.}10Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 120.	d.	Zone 121.	d.	Zone 120.	Zone 121.		
91	+ 4 4	- 2.3	+ 0 44'	1.7	...	Comp., n. p., 20". 17th mag.
92	+ 8 37	- 7.2	8 31	2.7	0 48 29.8	28.3	+ 1.5	
93	5 7	6.7	5 3	2.4	0 45 0.3	0.6	- 0.3	
94	10 11	7.4	10 0	2.8	0 50 3.6	57.2	+ 6.4	
95	9 33	7.3	9 29	2.7	0 49 25.7	26.3	- 0.6	
96	4 32	6.5	4 29	2.2	0 44 25.5	26.8	- 1.3	
97	+ 2 35	6.2	....	...	0 42 28.8	....	...
98	- 0 32	5.9	....	...	0 39 26.1	....	...
99	+ 5 27	6.6	5 21	2.3	0 45 20.4	18.7	+ 1.7	
100	6 4	6.7	6 0	2.3	0 45 57.3	57.7	- 0.4	
101	1 29	5.9	1 24	1.8	0 41 23.1	22.2	+ 0.9	
102	1 10	5.8	....	...	0 41 4.2	....	...
103	6 51	6.7	6 50	2.3	0 46 44.3	47.7	- 3.4	
104	5 51	6.5	5 48	2.2	0 45 44.5	45.8	- 1.3	
105	1 18	5.7	1 18	1.7	0 41 12.3	16.3	- 4.0	
106	0 3	5.5	0 0	1.6	0 39 57.5	58.4	- 0.9	No star above 16th mag.
107	7 40	6.6	7 38	2.2	0 47 33.4	35.8	- 2.4	
108	8 19	6.7	8 10	2.2	0 48 12.3	7.8	+ 4.5	
109	2 35	5.9	2 31	1.7	0 42 29.1	29.3	- 0.2	
110	+ 1 36	5.6	+ 1 30	1.6	0 41 30.4	28.4	+ 2.0	
111	- 0 11	5.3	- 0 18	1.4	0 39 43.7	40.6	+ 3.1	
112	+ 5 9	6.1	+ 5 9	1.8	0 45 2.9	7.2	- 4.3	
113	6 8	6.2	6 8	1.9	0 46 1.8	1.1	+ 0.7	
114	9 9	6.6	9 6	2.1	0 49 2.4	3.9	- 1.5	
115	0 12	5.2	0 10	1.3	0 40 6.8	8.7	- 1.9	
116	0 20	5.1	0 16	1.3	0 40 14.9	14.7	+ 0.2	Comp., f., 18". 15th mag. Pure white.
117	3 0	5.5	3 2	1.5	0 42 54.5	60.5	- 6.0	
118	0 19	5.1	0 23	1.2	0 40 13.9	21.8	- 7.9	
119	1 0	5.1	0 54	1.2	0 40 54.9	52.8	+ 2.1	
120	5 4	5.7	4 59	1.6	0 44 58.3	57.4	+ 0.9	
121	8 1	6.0	7 58	1.8	0 47 55.0	56.2	- 1.2	
122	1 29	4.9	1 22	1.1	0 41 24.1	20.9	+ 3.2	
123	8 34	6.0	8 29	1.7	0 48 28.0	27.3	+ 0.7	
124	2 35	5.0	2 30	2.1	0 42 30.0	27.9	+ 2.1	
125	3 23	5.1	3 18	1.2	0 43 17.9	16.8	+ 1.1	
126	5 42	5.4	5 37	2.4	0 45 36.6	34.6	+ 2.0	Star in faint nebula.
127	0 9	4.5	0 5	0.9	0 40 4.5	4.1	+ 0.4	
128	....	...	1 50	1.0	0 41	49.0	...
129	0 29	4.5	0 21	0.8	0 40 24.5	20.2	+ 4.3	
130	2 14	4.7	2 12	0.9	0 42 9.3	11.1	- 1.8	
131	0 50	4.5	....	...	0 40 45.5	....	...
132	10 3	5.8	10 0	1.6	0 49 57.2	58.4	- 1.2	12th mag., star lost.
133	9 ..	...	9 17	1.5	0 49	15.5	...
134	9 58	5.8	9 50	1.6	0 49 52.2	48.4	+ 3.8	
135	+ 5 41	- 5.0	+ 5 37	- 1.1	+ 0 45 36.0	35.9	+ 0.1	

A.R. $12^{\text{h}} 0^{\text{m}}$ to $14^{\text{h}} 10^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 120.				ZONE 121.				MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.	Second Wire.	Mean red. to 2d Wire.	k.	First Wire.	Second Wire.	Mean red. to 2d Wire.	k.	Zone 120.	Zone 121.			
		<div>h. m. s.</div>	<div>s.</div>	<div>s.</div>	<div>s.</div>	<div>h. m. s.</div>	<div>s.</div>	<div>s.</div>	<div>s.</div>	<div>h. m. s.</div>	<div>s.</div>	<div>s.</div>	<div>s.</div>	
136	12	13 29 16.2	20.4	16.30	+0.11	13 29 16.2	20.3	16.25	-0.10	13 29 16.41	16.15	+0.26		
137	..	29 23.7	27.7	23.70	0.11	.....	.....	.....	.....	29 23.81	.....	.....
138	9-10	30 11.8	15.8	11.80	0.11	30 11.9	15.9	11.90	0.10	30 11.91	11.80	+0.11		
139	12	.....	.....	.....	.....	31 10.5	.....	10.50	0.10	31	10.40	.....	
140	11	31 24.5	.....	24.50	0.11	31 24.3	28.1	24.20	0.10	31 24.61	24.10	+0.51	
141	11	31 43.1	46.9	43.00	0.10	31 43.3	47.2	43.25	0.10	31 43.10	43.15	-0.05		
142	..	.....	.....	.....	.....	31 46.0	50.3	46.15	0.10	31	46.05	.....	
143	11-12	32 51.7	55.7	51.70	0.09	.....	.....	.....	.....	32 51.79	.....	.....
144	11-12	34 23.9	27.7	23.80	0.11	34 21.1	28.0	24.05	0.11	34 23.91	23.94	+0.03		
145	11	35 26.6	30.3	26.45	0.10	35 26.7	30.5	26.60	0.11	35 26.55	26.49	+0.06		
146	12	35	53.6	49.60	0.10	35 49.7	53.5	49.60	0.11	35 49.70	49.49	+0.21		
147	10	36 12.1	16.1	12.10	0.10	36 12.2	16.3	12.25	0.11	36 12.20	12.14	+0.06		
148	..	3 .....	.....	.....	.....	36	24.5	20.50	0.11	36	20.39	.....	
149	13	37 41.7	.....	41.70	0.10	.....	.....	.....	.....	37 41.80	.....	.....
150	10-11	38 2.3	6.3	2.30	0.08	38 2.4	6.2	2.30	0.12	38 2.38	2.18	+0.20		
151	10	38 20.6	24.5	20.55	0.08	38 20.8	24.8	20.80	0.12	38 20.63	20.68	-0.05		
152	12	39 5.0	9.0	5.00	0.09	39 5.4	9.2	5.30	0.12	39 5.09	5.18	-0.09		
153	13	40 29.5	.....	29.50	0.08	40 29.6	34.0	29.80	0.12	40 29.58	29.68	-0.10	
154	12	41 1.8	5.8	1.80	0.08	41 2.0	6.1	2.05	0.13	41 1.88	1.92	-0.04		
155	12	41	10.3	6.30	0.07	.....	.....	.....	.....	41 6.37	.....	.....
156	13	42 35.2	39.1	35.15	0.08	42 35.2	39.4	35.30	0.13	42 35.23	35.17	+0.06		
157	12	43 10.4	14.3	10.35	0.07	43 10.5	14.3	10.40	0.13	43 10.42	10.27	+0.15		
158	12	43 42.0	45.8	41.90	0.07	43 42.4	46.0	42.20	0.14	43 41.97	42.06	-0.09		
159	11-12	43 47.0	51.0	47.00	0.06	43 47.4	51.1	47.25	0.14	43 47.06	47.11	-0.05		
160	12-13	44 57.7	61.8	57.75	0.07	.....	.....	.....	.....	44 57.82	.....	.....
161	10	46 25.5	29.4	25.45	0.07	46 26.1	29.9	26.00	0.14	46 25.52	25.86	-0.34		
162	10-11	47 22.0	26.1	22.05	0.06	47 21.9	25.9	21.90	0.15	47 22.11	21.75	+0.36		
163	12	48 13.0	.....	13.00	0.07	48 13.5	17.2	13.35	0.15	48 13.07	13.20	-0.13	
164	12	48 33.0	37.0	33.00	0.06	48 33.1	37.0	33.05	0.15	48 33.06	32.90	+0.16		
165	12	.....	.....	.....	.....	49 12.5	16.4	12.45	0.15	49	12.30	.....	
166	12	49 17.6	21.5	17.55	0.06	49 17.6	21.5	17.55	0.15	49 17.61	17.40	+0.21		
167	11	51	4.5	0.50	0.05	51	4.5	0.50	0.16	51 0.55	0.34	+0.21		
168	11	51 8.3	.....	8.30	0.05	51 8.5	.....	8.50	0.16	51 8.35	8.34	+0.01	
169	8	52 31.7	35.7	31.70	0.05	.....	.....	.....	.....	52 31.75	.....	.....
170	12	.....	.....	.....	.....	52 49.4	53.3	49.35	0.17	52	49.18	.....	
171	10	52 53.5	57.3	53.40	0.05	.....	.....	.....	.....	52 53.45	.....	.....
172	13	53 55.0	58.9	54.95	0.05	53 55.0	.....	55.00	0.17	53 55.00	54.83	+0.17	
173	12	55	20.3	16.30	0.04	55 16.5	20.5	16.50	0.17	55 16.34	16.33	+0.01		
174	9	55 21.9	25.9	21.90	0.05	55 22.3	26.3	22.30	0.17	55 21.95	22.13	-0.18		
175	12-13	56 52.7	56.9	52.80	0.04	56 52.9	57.0	52.95	0.18	56 52.84	52.77	+0.07		
176	12	57	37.8	33.80	0.05	57 33.7	.....	33.70	0.17	57 33.85	33.53	+0.32	
177	12	57 44.8	48.8	44.80	0.05	57 45.0	49.2	45.10	0.17	57 44.85	44.93	-0.08		
178	11	58 38.9	43.0	38.95	0.05	58 39.0	43.2	39.10	0.18	58 39.00	38.92	+0.08		
179	12-13	58	47.1	43.10	0.05	58	47.2	43.20	0.18	58 43.15	43.02	+0.13		
180	12	13 59 34.8	38.8	34.80	+0.05	13 59 35.3	39.2	35.25	-0.18	13 59 34.85	35.07	-0.22		

A.R. $12^{\text{h}} 0^{\text{m}}$ to $14^{\text{h}} 10^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 120.	d.	Zone 121.	d.	Zone 120.	Zone 121.		
136	+ 3 54	- 4.7	+ 3 50	- 0.9	+ 0 43 49.3	49.1	+ 0.2	
137	....	...	....	...	.....	....	...
138	5 0	4.8	4 55	0.9	0 44 55.2	54.1	+ 1.1	
139	7 17	5.1	....	...	0 47 11.9	....	...
140	9 8	5.4	9 1	1.2	0 48 62.6	59.8	+ 2.8	
141	2 13	4.3	2 9	0.6	0 42 8.7	8.4	+ 0.3	
142	0 ..	...	5 10	0.9	0 45	9.1	...	
143	0 53	4.1	....	...	0 40 48.9	....	...
144	8 47	5.2	8 42	1.1	0 48 41.8	40.9	+ 0.9	
145	9 8	5.1	9 4	1.0	0 49 2.9	3.0	- 0.1	
146	7 33	4.9	7 21	0.9	0 47 28.1	20.1	+ 8.0	
147	8 10	4.9	8 7	0.9	0 48 5.1	6.1	- 1.0	
148	....	...	....	...	.....	....	...
149	8 58	5.0	....	...	0 48 53.0	....	...
150	1 49	3.9	1 42	0.3	0 41 45.1	41.7	+ 3.4	
151	3 54	4.2	3 50	0.4	0 43 49.8	49.6	+ 0.2	
152	9 12	4.9	9 10	0.9	0 49 7.1	9.1	- 2.0	
153	6 50	4.5	6 43	0.6	0 46 45.5	42.4	+ 3.1	No stars above 15th mag.
154	5 20	4.2	5 15	0.4	0 45 15.8	14.6	+ 1.2	
155	0 25	3.5	....	...	0 40 21.5	....	...
156	6 20	4.3	....	...	0 46 15.7	....	...	Slightly nebulous.
157	5 19	4.1	5 14	0.3	0 45 14.9	13.7	+ 1.2	
158	2 20	3.7	2 20	0.1	0 42 16.3	19.9	- 3.6	
159	1 9	3.5	1 5	0.0	0 41 5.5	5.0	+ 0.5	
160	4 30	3.9	....	...	0 44 26.1	....	...
161	8 0	4.4	7 56	- 0.5	0 47 55.6	55.5	+ 0.1	
162	3 40	3.7	3 40	+ 0.1	0 43 36.3	39.9	- 3.6	
163	7 24	4.2	7 25	+ 0.3	0 47 19.8	24.7	- 4.9	
164	4 36	3.8	4 31	- 0.1	0 44 32.2	30.9	+ 1.3	
165	3 11	3.5	3 11	0.0	0 43 7.5	11.0	- 3.5	
166	5 34	3.9	5 30	- 0.1	0 45 30.1	29.9	+ 0.2	
167	1 50	3.2	2 43	+ 0.2	0 41 46.8	43.2	+ 3.6	
168	1 30	3.2	1 28	0.3	0 41 26.8	28.3	- 1.5	
169	4 12	3.5	4 9	0.2	0 44 18.5	9.2	- 0.7	
170	1 35	3.0	1 30	0.4	0 41 32.0	30.4	+ 1.6	
171	3 28	3.3	3 25	0.2	0 43 24.7	25.2	- 0.5	
172	6 28	3.7	....	...	0 46 24.3	....	...	Nebulous star.
173	2 0	3.0	1 55	0.5	0 41 57.0	55.5	+ 1.5	
174	3 40	3.2	3 35	0.4	0 43 36.8	35.4	+ 1.4	
175	1 0	2.7	1 0	0.7	0 40 57.3	60.7	- 3.4	
176	8 3	3.8	8 0	+ 0.1	0 47 59.2	60.1	- 0.9	
177	10 13	4.1	9 58	- 0.1	0 49 68.9	57.9	+ 11.0	
178	8 41	3.8	8 37	0.0	0 48 37.2	37.0	+ 0.2	
179	7 16	3.6	....	...	0 47 12.4	....	...
180	+ 7 44	- 3.5	+ 7 40	+ 0.2	+ 0 47 40.5	40.2	+ 0.3	

ZONE OBSERVATIONS.

A.R. ^{h.}12 ^{m.}0 to ^{h.}14 ^{m.}10.Dec. +⁰ 40 to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 120.						ZONE 121.						MEAN RIGHT ASCENSION. 1859.0		Difference.		
		First Wire.			Second Wire.	Mean red. to 2d Wire.	k.	First Wire.			Second Wire.	Mean red. to 2d Wire.	k.	Zone 120.	Zone 121.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.		s.	s.
181	...							13	59	43.3	47.3	43.30	-0.18	13	59	43.12		
182	...	14	1	27.3	30.9	27.10	+0.03	14	1	26.7	31.0	26.85	0.19	14	1	27.13	26.66	+0.47
183	...		2	18.8	22.6	18.70	0.03		2	18.6	22.8	18.70	0.19		2	18.73	18.51	+0.22
184	...		2	....	26.6	22.60	0.04		2	....	26.3	22.30	0.19		2	22.64	22.11	+0.53
185	11-12		2	31.2	35.1	31.15	0.03		2	31.2	35.4	31.30	0.20		2	31.18	31.10	+0.08
186	11		3	20.4	24.4	20.40	0.03		3	20.6	24.6	20.60	0.20		3	20.43	20.40	+0.03
187	11-12		3	56.8	60.8	56.80	0.03		3	57.1	60.7	56.90	0.20		3	56.83	56.70	+0.13
188	11-12	14	4	16.4	20.3	16.35	+0.03		4	16.7	20.7	16.70	0.19		4	16.38	16.51	-0.13
189	...			....	....	....	....		5	....	39.1	35.10	0.20		5	....	34.90	....
190	...			....	....	....	....		7	....	39.9	35.90	0.21		7	....	35.69	....
191	...			....	....	....	....		8	....	15.0	11.00	0.20		8	....	10.80	....
192	...			....	....	....	....	14	8	22.7	26.5	22.60	-0.21	14	8	....	22.39	....

A.R. ^{h.}12 ^{m.}0 to ^{h.}14 ^{m.}10.Dec. ⁰+0 40 to ⁰0 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 120.	d.	Zone 121.	d.	Zone 120.	Zone 121.		
181	' "	"	+ 6 13	+ 0.2	+ 0 48	13.2	"	Telescope unsteady, Zone 121.
182	+ 3 22	- 2.8	3 20	0.7	0 43 19.2	20.7	- 1.5	
183	0 59	2.3	0 55	0.9	0 40 56.7	55.9	+ 0.8	
184	8 37	3.5	....	...	0 48 33.5	....	...
185	2 42	2.7	2 38	0.8	0 42 39.3	38.8	+ 0.5	
186	2 18	2.5	2 13	0.9	0 42 15.5	13.9	+ 1.6	
187	3 11	2.7	3 8	0.8	0 43 8.3	8.8	- 0.5	
188	+ 8 40	- 3.5	8 43	0.3	0 48 36.5	43.3	- 6.8	
189	....	...	6 17	0.6	0 46	17.6	....
190	....	...	4 32	0.9	0 44	32.9	....
191	9 20	0.5	0 49	20.5	
192	+ 3 20	+ 1.0	+ 0 43	21.0	

ZONE OBSERVATIONS.

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 122.						ZONE 123.						MEAN RIGHT ASCENSION 1859.0				Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 122.		Zone 123.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.		s.
1	9	11	54	43.8	....	43.80	+0.12	11	54	43.4	....	43.40	+0.33	11	54	43.92	43.73	+0.19
2	9		54	....	48.0	44.00	0.12		....	47.8	43.80	0.33		54	44.12	44.13	-0.01	
3	10		55	13.9	17.9	13.90	0.12		55	13.7	17.7	13.70	0.33		55	14.02	14.03	-0.01	
4	12		56	27.9	....	27.90	0.12		56	2.0	....	....	....		56	28.02	....	....
5	11-12		56	33.1	36.9	33.00	0.12		56	33.0	37.1	33.05	0.32		56	33.12	33.37	-0.25	
6	11		56	43.3	47.3	43.30	0.12		56	43.2	46.9	43.05	0.32		56	43.42	43.37	+0.05	
7	11		57	20.2	24.1	20.15	0.11		57	20.1	24.0	20.05	0.32		57	20.26	20.37	-0.11	
8	10		57	28.9	32.8	28.85	0.11		57	28.7	32.6	28.65	0.32		57	28.96	28.97	-0.01	
9	12-13		58	6.7	10.6	6.65	0.11		58	6.6	....	6.60	0.31		58	6.76	6.91	-0.15
10	12		58	22.7	26.9	22.80	0.10		58	22.5	26.4	22.45	0.31		58	22.90	22.76	+0.14	
11	10		58	36.5	40.5	36.50	0.10		58	36.5	40.4	36.45	0.31		58	36.60	36.76	-0.16	
12	10		58	52.2	56.3	52.25	0.10		58	52.0	56.1	52.05	0.31		58	52.35	52.36	-0.01	
13	11-12		59	17.0	21.0	17.00	0.09	11	59	16.9	20.8	16.85	0.30		59	17.09	17.15	-0.06	
14	12-13	11	59	36.9	....	36.90	0.10		....	....	....	....		11	59	37.00	....	....
15	13	12	0	26.1	....	26.10	0.10		....	....	....	....		12	0	26.20	....	....
16	11		0	38.4	42.5	38.45	0.09	12	0	38.3	42.2	38.25	0.30		0	38.54	38.55	-0.01	
17	12		1	13.6	17.7	13.65	0.09		1	13.3	17.2	13.25	0.29		1	13.74	13.54	+0.20	
18	12		2	58.0	61.9	57.95	0.08		....	....	....	....		2	58.03	....	....
19	9		4	12.3	16.2	12.25	0.08		4	12.2	16.1	12.15	0.27		4	12.33	12.42	-0.09	
20	12		4	17.4	21.4	17.40	0.07		4	17.5	21.4	17.45	0.27		4	17.47	17.72	-0.25	
21	12		4	53.7	57.8	53.75	0.07		4	53.6	57.5	53.55	0.27		4	53.82	53.82	0.00	
22	12		5	25.4	29.3	25.35	0.07		5	25.2	29.1	25.15	0.27		5	25.42	25.42	0.00	
23	..		5	28.2	32.3	28.25	0.07		5	....	32.0	28.00	0.27		5	28.32	28.27	+0.05
24	12		5	31.5	35.3	31.40	0.07		5	31.1	35.1	31.10	0.27		5	31.47	31.37	+0.10	
25	..		6	0.2	4.2	0.20	0.07		....	....	....	....		6	0.27	....	....
26	..		6	1.8	5.7	1.75	0.06		....	....	....	....		6	1.81	....	....
27	12		7	16.7	21.1	16.90	0.06		7	17.4	20.8	17.10	0.26		7	16.96	17.36	-0.40	
28	12		7	34.2	....	....	0.05		....	....	....	....		7	34.25	....	....
29	10		7	34.9	39.0	34.95	0.05		7	34.5	38.6	34.55	0.25		7	35.00	34.80	+0.20	
30	12		8	52.7	56.9	52.80	0.05		8	52.8	56.7	52.75	0.25		8	52.85	53.00	-0.15	
31	12		9	1.8	5.6	1.70	0.05		9	1.7	5.6	1.65	0.25		9	1.75	1.90	-0.15	
32	11		9	23.0	26.9	22.95	0.05		9	22.8	26.8	22.80	0.24		9	23.00	23.04	-0.04	
33	12		9	53.2	57.2	53.20	0.05		9	53.0	....	53.00	0.24		9	53.25	53.24	+0.01
34	10-11		10	3.6	7.3	3.45	0.05		10	3.3	7.3	3.30	0.24		10	3.50	3.54	-0.04	
35	12		11	....	8.5	4.50	0.04		....	....	....	....		11	4.54	....	....
36	12-13	12	11	12.8	....	12.80	+0.04		....	....	....	....		11	12.84	....	....
37	12-13		....	....	....	....	....		12	19.9	24.0	19.95	0.23		12	....	20.18	....
38	10-11		....	....	....	....	....		12	40.1	44.1	40.10	0.22		12	....	40.32	....
39	..		....	....	....	....	....		12	....	56.9	52.90	0.22		12	....	53.12	....
40	..		....	....	....	....	....		14	22.4	26.4	22.40	0.21		14	....	22.61	....
41	..		....	....	....	....	....		14	51.2	55.0	51.10	0.21		14	....	51.31	....
42	..		....	....	....	....	....		15	2.7	6.7	2.70	0.21		15	....	2.91	....
43	..		....	....	....	....	....		15	53.1	57.0	53.05	0.20		15	....	53.25	....
44	..		....	....	....	....	....		16	32.1	36.1	32.10	0.20		16	....	31.30	....
45	12	16	57.2	61.2	57.20	+0.20		12	16	57.40

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 123.	d.	Zone 122.	Zone 123.		
1	+ 2 3	- 0.1	+ 2 0	+ 2.3	+ 0 52 2.9	2.3	+ 0.6	
2	3 19	0.2	3 17	2.2	0 53 18.8	19.2	- 0.4	
3	7 35	0.7	7 31	1.9	0 57 34.3	32.9	+ 1.4	
4	9 50	1.0	9 50	1.7	0 59 49.0	51.7	- 2.7	
5	10 20	1.0	10 18	1.7	1 0 19.0	19.7	- 0.7	
6	10 30	1.1	10 29	1.7	1 0 28.9	30.7	- 1.8	
7	3 0	0.3	2 56	2.2	0 52 59.7	58.2	+ 1.5	
8	10 32	1.1	10 29	1.7	1 0 30.9	30.7	+ 0.2	
9	6 39	0.7	6 38	1.9	0 56 38.3	39.9	- 1.6	
10	3 30	0.3	3 27	2.2	0 53 29.7	29.2	+ 0.5	
11	5 13	0.5	5 8	2.0	0 55 12.5	10.0	+ 2.5	
12	....	...	4 43	2.1	0 54	45.1	...	
13	1 21	0.1	1 18	2.3	0 51 20.9	20.3	+ 0.6	
14	5 18	0.6	....	...	0 55 17.4	....	...
15	7 33	0.8	....	...	0 57 32.2	....	...
16	0 10	0.0	0 6	2.4	0 50 10.0	8.4	+ 1.6	
17	5 39	0.6	5 38	2.0	0 55 38.4	40.0	- 1.6	
18	2 0	0.3	....	...	0 51 59.7	....	...
19	8 43	1.1	8 38	1.8	0 58 41.9	39.8	+ 2.1	
20	3 13	0.5	3 11	2.2	0 53 12.5	13.2	- 0.7	
21	3 17	0.5	3 13	2.2	0 53 16.5	15.2	+ 1.3	Comp., n. f., dist. 22".
22	4 12	0.6	4 9	2.1	0 54 11.4	11.1	+ 0.3	Blue comp., s. p., dist. 14".
23	....	...	....	...	.....	....	...
24	6 45	0.9	6 40	1.9	0 56 44.1	41.9	+ 2.2	
25	....	...	....	...	.....	....	...
26	....	...	....	...	.....	....	...
27	8 8	1.1	8 3	1.8	0 58 6.9	4.8	+ 2.1	
28	1 34	0.4	....	...	0 51 33.6	....	...
29	1 4	0.4	1 0	2.3	0 51 3.6	2.3	+ 1.3	
30	2 41	0.6	2 39	2.2	0 52 40.4	41.2	- 0.8	
31	1 50	0.5	1 49	2.3	0 51 49.5	51.3	- 1.8	
32	5 37	0.9	5 31	2.0	0 55 36.1	33.0	+ 3.1	
33	5 31	0.9	5 30	2.0	0 55 30.1	32.0	- 1.9	
34	8 7	1.2	8 1	1.8	0 58 5.8	2.8	+ 3.0	Comp., n. f., dist. 25".
35	8 0	1.2	....	...	0 57 58.8	....	...
36	9 12	1.3	....	...	0 59 10.7	....	...
37	6 30	1.1	6 25	2.0	0 56 28.9	27.0	+ 1.9	Nebulous?
38	+ 0 11	- 0.4	0 8	2.4	0 50 10.6	10.4	+ 0.2	
39	....	...	0 0	2.4	0 50	2.4	...	
40	....	...	3 7	2.2	0 53	9.2	...	
41	....	...	3 2	2.2	0 53	4.2	...	
42	....	...	5 39	2.0	0 55	41.0	...	
43	....	...	10 12	1.7	1 0	13.7	...	
44	....	...	0 14	2.4	0 50	16.4	...	
45	....	...	+ 4 8	+ 2.1	+ 0 54	10.1	...	

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.Dec. +^o50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 122.				ZONE 123.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 122.	Zone 123.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	
46	9-10	.....	.....	.....	.....	12 17 0.1	4.0	0.05	+0.20	12 17	0.25	.....
47	10-11	.....	.....	.....	.....	17 23.8	27.9	23.85	0.20	17	24.05	.....
48	12	12 18 29.5	33.6	29.55	0.00	.....	.....	.....	.....	18 29.55	.....	.....
49	12-13	19 33.3	37.0	33.15	+0.00	.....	.....	.....	.....	19 33.15	.....	.....
50	9-10	19 47.9	51.9	47.90	-0.01	19 47.8	51.8	47.80	0.18	19 47.89	47.98	-0.09
51	12	19 54.7	.....	54.70	-0.01	.....	.....	.....	.....	19 54.69	.....	.....
52	9-10	20 12.7	16.7	12.70	0.00	20 12.7	16.5	12.60	0.18	20 12.70	12.78	-0.08
53	12	20	26.5	22.50	0.00	.....	.....	.....	.....	20 22.50	.....	.....
54	10	20 48.7	52.4	48.55	0.00	20 48.6	52.4	48.50	0.18	20 48.55	48.68	-0.13
55	12	21 9.3	13.2	9.25	-0.01	.....	.....	.....	.....	21 9.24	.....	.....
56	12-13	21 14.2	18.3	14.25	0.01	.....	.....	.....	.....	21 14.24	.....	.....
57	..	.....	.....	.....	.....	22 27.8	31.8	27.80	0.17	22	27.97	.....
58	11-12	22 44.6	48.4	44.50	0.02	22 44.6	48.1	44.35	0.16	22 44.48	44.51	-0.03
59	12	22	51.3	47.30	0.02	.....	.....	.....	.....	22 47.28	.....	.....
60	11	23 27.2	31.3	27.25	0.02	23 27.3	31.3	27.30	0.16	23 27.23	27.46	-0.23
61	12	24 4.4	8.4	4.40	0.02	.....	.....	.....	.....	24 4.38	.....	.....
62	12	24 25.2	29.2	25.20	0.03	24 25.1	29.1	25.10	0.15	24 25.17	25.25	-0.08
63	12	25 2.5	6.3	2.40	0.03	.....	.....	.....	.....	25 2.37	.....	.....
64	11	25 35.7	39.7	35.70	0.04	25 35.7	39.6	35.65	0.15	25 35.66	35.80	-0.14
65	11	27 20.9	24.7	20.80	0.05	27 20.7	24.7	20.70	0.14	27 20.75	20.84	-0.09
66	12	27 56.0	60.0	56.00	0.06	27 55.8	.....	55.80	0.13	27 55.94	55.93	+0.01
67	10	28 0.6	4.4	0.50	0.05	28 0.3	4.2	0.25	0.13	28 0.55	0.38	+0.17
68	12	28 5.3	.....	5.30	0.06	.....	.....	.....	.....	28 5.24	.....	.....
69	9-10	28 38.9	42.6	38.75	0.05	28 38.8	42.7	38.75	0.13	28 38.70	38.88	-0.18
70	11	28 52.2	56.3	52.25	0.05	28 52.2	56.1	52.15	0.13	28 52.20	52.28	-0.08
71	12-13	29 53.9	57.9	53.90	0.06	.....	.....	.....	.....	29 53.84	.....	.....
72	11	30 14.4	18.4	14.40	0.06	30 14.4	18.3	14.35	0.12	30 14.34	14.47	-0.13
73	13	30 57.5	.....	57.50	0.07	.....	.....	.....	.....	30 57.43	.....	.....
74	9	31 19.9	24.0	19.95	0.07	31 19.9	23.8	19.85	0.11	31 19.88	19.96	-0.08
75	..	32	46.2	42.20	0.07	.....	.....	.....	.....	32 42.13	.....	.....
76	12	33 20.6	24.7	20.65	0.08	33 20.6	24.4	20.50	0.10	33 20.57	20.60	-0.03
77	11-12	33 26.6	30.7	26.65	0.08	33 26.9	30.4	26.65	0.10	33 26.57	26.75	-0.18
78	12	33	38.4	34.40	0.08	.....	.....	.....	.....	33 34.32	.....	.....
79	12-13	34 45.5	49.5	45.50	0.09	34 45.3	49.3	45.30	0.09	34 45.41	45.39	+0.02
80	12	35 8.9	13.0	8.95	0.09	35 8.3	12.7	8.50	0.09	35 8.86	8.59	+0.27
81	10	35 33.8	37.9	33.85	0.09	35 33.6	37.7	33.65	0.09	35 33.76	33.74	+0.02
82	13	36 0.7	4.9	0.80	0.10	.....	.....	.....	.....	36 0.70	.....	.....
83	12	37 3.3	7.1	3.20	0.10	.....	.....	.....	.....	37 3.10	.....	.....
84	12	37 8.0	11.6	7.80	0.11	37 7.4	11.3	7.35	0.08	37 7.69	7.43	+0.26
85	11-12	37 34.6	38.7	34.65	0.10	37 34.7	38.5	34.60	0.07	37 34.55	34.67	-0.12
86	12	37	50.0	46.00	0.11	.....	.....	.....	.....	37 45.89	.....	.....
87	10	38 8.7	12.8	8.75	0.11	38 8.5	12.5	8.50	0.07	38 8.64	8.57	+0.07
88	11	38 49.9	53.9	49.90	0.11	38 49.8	53.7	49.75	0.07	38 49.79	49.82	-0.03
89	10-11	39	35.4	31.40	0.12	39 31.2	35.2	31.20	0.06	39 31.28	31.26	+0.02
90	12	12 39 38.7	42.7	38.70	-0.11	12 39 38.6	42.7	38.65	+0.06	12 39 38.59	38.71	-0.12

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.Dec. +^o50 to ⁱ0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 122.	d.	Zone 122.	Zone 123.		
46	+10 17	- 2.0	+10 14	+ 1.7	+ 0 0 15.0	15.7	- 0.7	
47	1 30	0.6	1 27	2.3	0 51 29.4	29.3	+ 0.1	
48	4 40	1.0	....	...	0 54 39.0	....	...
49	9 59	1.6	....	...	0 59 57.4	....	...
50	4 3	0.9	4 0	2.1	0 54 2.1	2.1	0.0	
51	3 59	0.9	....	...	0 53 58.1	....	...
52	8 55	1.5	8 49	1.8	0 58 53.5	50.8	+ 2.7	
53	7 54	1.4	....	...	0 57 52.6	....	...
54	10 21	1.6	10 9	1.3	1 0 19.4	10.3	+ 9.1	
55	6 28	1.2	....	...	0 56 26.8	....	...	Bluish.
56	4 50	1.1	....	...	0 54 48.9	....	...
57	....	...	4 10	1.9	0 54	11.9	...	
58	10 3	1.7	10 0	1.3	1 0 1.3	1.3	0.0	
59	5 33	1.2	5 23	1.8	0 55 31.8	24.8	+ 7.0	
60	7 18	1.4	7 13	1.6	0 57 16.6	14.6	+ 2.0	
61	9 19	1.6	....	...	0 59 17.4	....	...
62	4 30	1.1	4 25	1.9	0 54 28.9	26.9	+ 2.0	
63	8 39	1.6	....	...	0 58 37.4	....	...
64	4 19	1.1	4 14	1.9	0 54 17.9	15.9	+ 2.0	In an elongated nebulosity, H. IV. 5.
65	8 5	1.5	8 0	1.6	0 58 3.5	1.6	+ 1.9	
66	2 33	0.9	2 28	2.1	0 52 32.1	30.1	+ 2.0	
67	10 22	1.8	10 18	1.3	1 0 20.2	19.3	+ 0.9	
68	0 58	1.8	....	...	0 50 56.2	....	...
69	10 38	1.8	10 34	1.2	1 0 36.2	35.2	+ 1.0	
70	8 8	1.6	8 1	1.5	0 58 6.4	2.5	+ 3.9	
71	10 28	1.8	....	...	1 0 26.2	....	...
72	6 29	1.4	6 24	1.7	0 56 27.6	25.7	+ 1.9	
73	7 35	1.6	....	...	0 57 33.4	....	...	In a faint nebulosity.
74	9 37	1.8	9 33	1.3	0 59 35.2	34.3	+ 0.9	
75	....	...	....	...	.....	....	...
76	4 18	1.3	4 13	1.9	0 54 16.7	14.9	+ 1.8	
77	9 17	1.8	9 7	1.4	0 59 15.2	8.4	+ 6.8	
78	....	...	....	...	.....	....	...
79	4 23	1.3	4 20	1.9	0 54 21.7	21.9	- 0.2	
80	4 1	1.3	3 59	1.9	0 53 59.7	60.9	- 1.2	
81	5 57	1.5	5 51	1.7	0 55 55.5	52.7	+ 2.8	Comp., n. f., dist. 30".
82	0 58	1.0	....	...	0 50 57.0	....	...
83	3 8	1.2	....	...	0 53 6.8	....	...
84	0 5	0.9	0 1	2.3	0 50 4.1	3.3	+ 0.8	
85	+ 5 45	1.6	5 40	1.7	0 55 43.4	41.7	+ 1.7	
86	- 0 8	0.9	....	...	0 49 51.1	....	...
87	+ 3 58	1.4	3 54	1.9	0 53 56.6	55.9	+ 0.7	
88	4 29	1.5	4 24	1.8	0 54 27.5	25.8	+ 1.7	
89	3 40	1.4	3 51	1.9	0 53 38.6	52.9	-14.3	
90	+ 4 57	- 1.5	+ 4 48	+ 1.8	+ 0 54 55.5	49.8	+ 5.7	

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.Dec. [°]50 to [°]60.

Number of the Star.	Magnitude.	ZONE 122.					ZONE 123.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 122.		Zone 123.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	
91	12	12 40 20.7	24.5	20.60	-0.11		12 40 20.8	....	20.80	+0.06		12 40 20.49	20.86	-0.37	
92	12	40 49.9	53.8	49.85	0.11		40 49.7	53.7	49.70	0.06		40 49.74	49.76	-0.02	
93	11	41 49.1	53.0	49.05	0.13		41 48.9	....	48.90	0.05		41 48.92	48.95	-0.03	
94	12	41 50.9	54.9	50.90	0.13		41 50.7	54.9	50.80	0.05		41 50.77	50.85	-0.08	
95	11	42 34.7	38.8	34.75	0.13		42 34.5	38.4	34.45	0.04		42 34.62	34.49	+0.13	
96	11-12	42	42.8	38.80	0.13		42	42.7	38.70	0.04		42 38.67	38.74	-0.07	
97	12-13	42 51.2	55.3	51.25	0.13		.....	.....	.....	.....		42 51.12	.....	.....
98	11-12	44 25.9	29.8	25.85	0.14		44 25.7	29.7	25.70	0.03		44 25.71	25.73	-0.02	
99	8	44 38.6	42.6	38.60	0.14		44 38.3	42.4	38.35	0.03		44 38.46	38.38	+0.08	
100	9-10	45 14.6	18.6	14.60	0.14		45 14.5	18.4	14.45	0.03		45 14.46	14.48	-0.02	
101	12	45 52.7	56.5	52.60	0.15		45 52.6	56.5	52.55	0.02		45 52.45	52.57	-0.12	
102	10	46 23.1	27.1	23.10	0.15		46 23.1	27.1	23.10	0.02		46 22.95	23.12	-0.17	
103	13	.....	.....	.....	.....		47 2.9	....	2.90	0.02		47	2.92	....
104	..	.....	.....	.....	.....		47 27.5	31.3	27.40	0.02		47	27.42	....
105	13	48 24.7	28.8	24.75	0.16		48 24.9	28.8	24.85	-0.01		48 24.59	24.84	-0.25	
106	12-13	48 38.0	42.0	38.00	0.16		48 38.1	42.0	38.05	+0.01		48 37.84	38.06	-0.22	
107	12	49 33.0	37.1	33.05	0.17		49 32.8	36.8	32.80	0.00		49 32.88	32.80	+0.08	
108	12	49 33.9	38.0	33.95	0.17		49 33.8	37.7	33.75	0.00		49 33.78	33.75	+0.03	
109	12	50 52.4	56.5	52.45	0.17		50 52.4	56.3	52.35	-0.01		50 52.28	52.34	-0.06	
110	12	51 30.5	34.2	30.35	0.17		51 30.7	34.6	30.65	0.01		51 30.18	30.64	-0.46	
111	12	51 47.3	51.4	47.35	0.17		51 47.2	51.2	47.20	0.01		51 47.18	47.19	-0.01	
112	..	52 59.2	63.3	59.25	0.18		52 59.1	63.1	59.10	0.02		52 59.07	59.08	-0.01	
113	11	53 39.2	43.2	39.20	0.19		53 39.2	43.1	39.15	0.02		53 39.01	39.13	-0.12	
114	..	53 47.5	51.4	47.45	0.19		.....	.....	.....	.....		53 47.26	.....	.....
115	11	54 12.6	16.6	12.60	0.18		54 12.6	16.5	12.55	0.03		54 12.42	12.52	-0.10	
116	12	55 32.6	36.7	32.65	0.19		55 32.6	....	32.60	0.03		55 32.46	32.57	-0.11	
117	..	55 43.0	47.1	43.05	0.19		55 42.8	47.0	42.90	0.03		55 42.86	42.87	-0.01	
118	12	56 26.5	....	26.50	0.20		56	30.0	26.00	0.04		56 26.30	25.96	+0.34	
119	12	57 12.1	16.2	12.15	0.20		57 12.3	16.1	12.20	0.04		57 11.95	12.16	-0.21	
120	..	57 19.5	23.4	19.45	0.20		57 19.3	23.2	19.25	0.04		57 19.25	19.21	+0.04	
121	..	57 31.1	35.2	31.15	0.20		.....	.....	.....	.....		57 30.95	.....	.....
122	..	58 14.3	18.3	14.30	0.20		58 14.2	18.2	14.20	0.05		58 14.10	14.15	-0.05	
123	..	58 20.6	....	20.60	0.20		58 20.7	....	20.70	0.05		58 20.40	20.65	-0.25	
124	..	58 23.9	27.6	23.75	0.21		58 23.7	27.7	23.70	0.05		58 23.54	23.65	-0.11	
125	..	12 58 42.9	46.8	42.85	0.20		12 58 42.9	46.6	42.75	0.05		12 58 42.65	42.70	-0.05	
126	11	13 0 9.3	13.1	9.20	0.22		13 0 9.1	13.1	9.10	0.06		13 0 8.98	9.04	-0.06	
127	12	0 23.6	27.7	23.65	0.22		0 23.5	27.4	23.45	0.06		0 23.43	23.39	+0.04	
128	12	2 42.0	45.9	41.95	0.23		2 41.9	45.7	41.80	0.08		2 41.72	41.72	0.00	
129	12	2 59.7	63.7	59.70	0.23		2 59.7	63.8	59.75	0.08		2 59.47	59.67	-0.20	
130	12-13	3 18.8	22.7	18.75	0.23		.....	.....	.....	.....		3 18.52	.....	.....
131	13	3 28.9	32.7	28.80	0.23		3 28.6	32.3	28.45	0.08		3 28.57	28.37	+0.20	
132	11-12	5 29.3	33.3	29.30	0.25		5 29.4	33.3	29.35	0.09		5 29.05	29.26	-0.21	
133	..	5 41.8	45.6	41.70	0.25		5 41.5	45.4	41.45	0.09		5 41.45	41.36	+0.09	
134	12	6	8.4	4.40	0.26		6 3.9	8.3	4.20	-0.10		6 4.14	4.10	+0.04	
135	12	13 6 14.3	18.2	14.25	-0.25		13 6 ....	.....	.....	.....		13 6 14.00	.....	.....

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 122.	d.	Zone 122.	Zone 122.		
91	+10 28	- 2.1	+10 19	+ 1.6	+ 1° 0' 25.9	20.6	+ 5.3	
92	10 23	2.1	10 20	1.6	1 0 20.9	21.6	- 0.7	
93	1 13	1.2	1 9	2.2	0 51 11.8	11.2	+ 0.6	
94	1 30	1.2	1 25	2.2	0 51 28.8	27.2	+ 1.6	
95	8 21	2.0	8 17	1.7	0 58 19.0	18.7	+ 0.3	
96	5 25	1.7	5 21	1.8	0 55 23.3	22.8	+ 0.5	
97	....	...	....	...	....	....	...
98	6 40	1.8	6 36	1.7	0 56 38.2	37.7	+ 0.5	Blue companion, 40" a. f.
99	1 14	1.2	1 10	2.1	0 51 12.8	12.1	+ 0.7	
100	9 55	2.2	9 46	1.5	0 59 52.8	47.5	+ 5.3	Telescope moved by wind.
101	0 35	1.2	0 31	2.2	0 50 33.8	33.2	+ 0.6	
102	2 40	1.4	2 36	2.1	0 52 38.6	38.1	+ 0.5	
103	6 29	1.8	6 21	1.8	0 56 27.2	22.8	+ 4.4	
104	....	...	4 0	2.0	0 54	2.0	...	
105	....	...	1 10	2.2	0 51	12.2	...	
106	4 5	1.6	3 31	2.1	0 53 3.4	33.1	-29.7	
107	2 30	1.5	2 27	2.1	0 52 28.5	29.1	- 0.6	
108	2 19	1.4	2 5	2.2	0 52 17.6	7.2	+10.4	
109	5 24	1.8	5 20	1.9	0 55 22.2	21.9	+ 0.3	
110	9 6	2.2	9 0	1.7	0 59 3.8	1.7	+ 2.1	
111	+ 7 30	2.1	7 25	1.8	0 57 27.9	26.8	+ 1.1	
112	....	...	+ 3 13	2.1	0 53	15.1	...	Comp., 15th mag., n. f. 16".
113	- 0 11	1.3	- 0 13	2.3	0 49 47.7	49.3	- 1.6	
114	....	...	....	...	....	....	...
115	+ 8 43	2.3	+ 8 41	1.7	0 58 40.7	42.7	- 2.0	
116	6 10	2.0	6 10	1.9	0 56 8.0	11.9	- 3.9	
117	....	...	9 0	1.7	0 59	1.7	...	
118	....	...	7 14	1.8	0 57	15.8	...	
119	6 30	2.1	6 25	1.8	0 56 27.9	26.8	+ 1.1	
120	10 40	2.6	10 39	1.6	1 0 37.4	40.6	- 3.2	
121	....	...	....	...	....	....	...
122	....	...	9 50	1.6	0 59	51.6	...	
123	....	...	8 30	1.7	0 58	31.7	...	
124	....	...	3 34	2.1	0 53	36.1	...	
125	....	...	10 10	1.6	1 0	11.6	...	
126	1 29	1.7	1 25	2.2	0 51 27.3	27.2	+ 0.1	
127	0 5	1.5	0 2	2.3	0 50 3.5	4.3	- 0.8	
128	7 4	2.3	7 1	1.8	0 57 1.7	2.8	- 1.1	A large number of small stars.
129	5 5	2.1	5 2	1.9	0 55 2.9	3.9	- 1.0	
130	6 7	2.2	....	...	0 56 4.8	....	...
131	6 18	2.3	6 16	1.9	0 56 15.7	17.9	- 2.2	
132	....	...	6 37	1.8	0 56	38.8	...	
133	....	...	2 10	2.1	0 52	12.1	...	
134	1 29	1.7	+ 1 27	+ 2.2	0 51 27.3	29.2	- 1.9	
135	+ 8 0	- 2.5	....	...	+ 0 57 57.5	....	...	Not seen in Zone 123.

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 122.					ZONE 123.					MEAN RIGHT ASCENSION 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 122.		Zone 123.	
		h. m. s.	a.	s.	s.		h. m. s.	a.	s.	s.		h. m. s.	a.	s.	
136	12	13 6 59.0	63.0	59.00	-0.26		13 6 58.9	62.9	58.90	-0.10		13 6 58.74	58.80	-0.06	
137	12	7 11.9	15.9	11.90	0.26		7 11.8	15.8	11.80	0.10		7 11.64	11.70	-0.06	
138	12-13	7 47.4	51.3	47.35	0.27		.....	.....	.....	.....		7 47.08	.....	.....
139	12-13	8 3.9	7.8	3.85	0.27		.....	.....	.....	.....		8 3.58	.....	.....
140	..	9 55.1	59.0	55.05	0.27		9 55.0	59.0	55.00	0.12		9 54.78	54.88	-0.10	
141	..	10 7.5	11.5	7.50	0.28		10 7.2	11.0	7.10	0.12		10 7.22	6.98	+0.24	
142	..	10	16.3	12.30	0.29		10 12.3	16.1	12.20	0.12		10 12.01	12.08	-0.07	
143	..	10 39.0	43.0	39.00	0.28		10 38.7	42.8	38.75	0.12		10 38.72	38.63	+0.09	
144	12	10 53.0	56.9	52.95	0.28		10 52.8	56.7	52.75	0.12		10 52.67	52.63	+0.04	
145	11-12	11 47.8	52.0	47.90	0.29		11 47.8	51.8	47.80	0.13		11 47.61	47.67	-0.06	
146	11-12	.....	.....	.....	.....		12 30.1	34.0	30.05	0.14		12	29.91	.....
147	13	13 18.4	22.3	18.35	0.30		13 18.2	22.2	18.20	0.14		13 18.05	18.06	0.00	
148	11-12	13 58.3	62.2	58.25	0.30		13 58.1	62.2	58.15	0.14		13 57.95	58.01	-0.06	
149	12	14 8.5	12.4	8.45	0.29		14 8.2	12.3	8.25	0.14		14 8.16	8.11	+0.05	
150	..	.....	.....	.....	.....		14 17.9	22.1	18.00	0.15		14	17.85	.....
151	12	14 40.4	44.3	40.35	0.30		14 40.0	43.8	39.90	0.15		14 40.05	39.75	+0.30	
152	12	15 20.3	24.1	20.20	0.30		15 20.0	24.0	20.00	0.15		15 19.90	19.85	+0.05	
153	12	16 2.9	6.8	2.85	0.30		.....	.....	.....	.....		16 2.55	.....	.....
154	12	16 27.4	31.4	27.40	0.30		16 27.4	31.2	27.30	0.16		16 27.10	27.14	-0.04	
155	12	17 2.2	6.1	2.15	0.31		17 1.8	5.9	1.85	0.16		17 1.84	1.69	+0.15	
156	12	17 13.1	16.8	12.95	0.31		.....	.....	.....	.....		17 12.64	.....	.....
157	10	17	23.7	19.70	0.31		17	23.6	19.60	0.16		17 19.39	19.44	-0.05	
158	12-13	18 29.8	33.7	29.75	0.32		.....	.....	.....	.....		18 29.43	.....	.....
159	12	18 59.9	63.5	59.70	0.32		18 59.1	63.3	59.20	0.17		18 59.38	59.03	+0.35	
160	12	19 12.6	16.4	12.50	0.33		19 12.3	16.1	12.20	0.18		19 12.17	12.02	+0.15	
161	12	20 13.6	17.6	13.60	0.33		20 13.4	17.3	13.35	0.18		20 13.27	13.17	+0.10	
162	10	20 33.8	37.7	33.75	0.32		20 33.7	37.5	33.60	0.18		20 33.43	33.42	+0.01	
163	..	21 5.2	9.2	5.20	0.32		21 5.0	8.9	4.95	0.19		21 4.88	4.76	+0.12	
164	12	21 42.8	46.8	42.80	0.33		.....	.....	.....	.....		21 42.47	.....	.....
165	8-9	22 1.4	5.4	1.40	0.34		22 1.4	....	1.40	0.19		22 1.06	1.21	-0.15	
166	13	22 33.3	37.3	33.30	0.34		22 33.1	37.0	33.05	0.20		22 32.96	32.85	+0.11	
167	12	23 11.3	15.0	11.15	0.34		23 10.9	15.0	10.95	0.20		23 10.81	10.75	+0.06	
168	12	25 26.8	30.6	26.70	0.34		25 26.5	30.7	26.60	0.21		25 26.36	26.39	-0.03	
169	11	25 43.0	47.0	43.00	0.36		25 42.8	47.1	42.95	0.21		25 42.64	42.74	-0.10	
170	10-11	26 13.2	17.3	13.25	0.36		26 13.1	17.0	13.05	0.22		26 12.89	12.83	+0.06	
171	11	26 51.0	54.9	50.95	0.36		26 50.8	54.7	50.75	0.22		26 50.59	50.53	+0.06	
172	12	26 59.1	63.1	59.10	0.37		26 58.8	62.8	58.80	0.22		26 58.73	58.58	+0.15	
173	11	27 6.4	10.3	6.35	0.36		27 6.3	10.4	6.35	0.22		27 5.99	6.13	-0.14	
174	..	27 34.6	38.6	34.60	0.36		27 34.7	38.5	34.60	0.23		27 34.24	34.37	-0.13	
175	12	27 58.2	62.0	58.10	0.36		27 57.8	62.1	57.95	0.23		27 57.74	57.72	+0.02	
176	11	28 27.4	31.1	27.25	0.36		.....	.....	.....	.....		28 26.89	.....	.....
177	11	28 36.1	40.1	36.10	0.37		28 35.9	39.9	35.90	0.23		28 35.73	35.67	+0.06	
178	12	29 24.1	28.1	24.10	0.38		29 23.9	28.0	23.95	0.24		29 23.72	23.71	+0.01	
179	12	29 53.0	56.6	52.80	0.37		29 52.7	56.4	52.55	0.24		29 52.43	52.31	+0.12	
180	12	13 30 10.6	14.6	10.60	-0.38		13 30 10.3	14.3	10.30	-0.24		13 30 10.22	10.06	+0.16	

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.Dec. +^o50 to ⁱ0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 123.	d.	Zone 122.	Zone 123.		
136	+ 4 35	- 2.2	+ 4 31	+ 2.0	+ 0 54 32.8	33.0	- 0.2	Comp., n. f., 40".
137	3 2	2.0	2 59	2.1	0 53 0.0	1.1	- 1.1	
138	0 51	1.8	....	...	0 50 49.2	....	...
139	2 36	1.9	....	...	0 52 34.1	....	...
140	....	...	5 31	1.9	0 55	32.9	...
141	....	...	1 54	2.2	0 51	56.2	...
142	....	...	7 ..	1.8	0 57 ....	....	...
143	....	...	1 37	2.1	0 51	39.1	...
144	2 11	1.9	2 6	2.1	0 52 9.1	8.1	+ 1.0	
145	5 20	2.3	....	...	0 55 17.7	....	...
146	5 17	2.3	5 11	2.1	0 55 14.7	13.1	+ 2.6	Blue comp., n. f.
147	5 20	2.3	5 18	1.9	0 55 17.7	19.9	- 2.2	
148	4 49	2.3	4 44	2.0	0 54 46.7	46.0	+ 0.7	
149	....	...	+10 30	1.6	1 0	31.6	...
150	....	...	- 0 10	2.3	0 49	52.3	...
151	8 0	2.7	+ 7 58	1.7	0 57 57.3	59.7	- 2.4	
152	10 45	3.0	10 42	1.6	1 0 42.0	43.6	- 1.6	
153	6 20	2.5	....	2.3	0 56 17.5	....	...
154	6 10	2.5	6 5	1.9	0 56 7.5	6.9	+ 0.6	
155	6 10	2.5	6 5	2.3	0 56 7.5	7.3	+ 0.2	
156	8 10	2.6	0 58 7.4	Blue comp., n. f.
157	....	...	9 43	1.6	0 59	44.6	...
158	5 50	2.5	....	...	0 55 47.5	....	...
159	5 26	2.5	5 23	1.9	0 55 23.5	24.9	- 1.4	
160	0 50	2.0	0 49	2.2	0 50 48.0	51.2	- 3.2	
161	4 0	2.3	3 57	2.0	0 53 57.7	59.0	- 1.3	
162	10 47	3.1	10 43	1.6	1 0 43.9	44.6	- 0.7	
163	....	...	10 40	1.6	1 0	41.6	...
164	....	...	7 10	1.8	0 57	11.8	...
165	1 0	2.1	0 58	2.2	0 50 57.9	60.2	- 2.3	
166	5 19	2.6	5 18	1.9	0 55 16.4	19.9	- 3.5	Blue comp., n. f.
167	3 24	2.4	3 20	2.0	0 53 21.6	22.0	- 0.4	
168	5 30	2.7	5 27	1.9	0 55 27.3	28.9	- 1.6	
169	....	...	2 8	2.2	0 52	10.2	...
170	+ 3 18	2.5	+ 3 13	2.1	0 53 15.5	15.1	+ 0.4	
171	0 0	2.1	- 0 5	2.3	0 49 57.9	57.3	+ 0.6	
172	- 0 8	2.1	- 0 12	2.3	0 49 49.9	50.3	- 0.4	
173	+ 1 50	2.3	+ 1 49	2.2	0 51 47.7	51.2	- 3.5	
174	....	...	7 30	1.8	0 57	31.8	...
175	7 58	3.0	7 50	1.8	0 57 55.0	51.8	+ 3.2	
176	8 37	3.0	8 45	1.7	0 58 34.0	46.7	-12.7	Blue comp., n. f.
177	6 49	2.9	6 45	1.8	0 56 46.1	46.8	- 0.7	
178	0 41	2.3	0 38	2.3	0 50 38.7	40.3	- 1.6	
179	10 10	3.3	10 0	1.6	1 0 6.7	1.6	+ 5.1	
180	+ 5 40	- 2.8	+ 5 37	+ 1.9	+ 0 55 37.2	38.9	- 1.7	

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 122.					ZONE 123.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	h.	First Wire.		Second Wire.	Mean red. to 1st Wire.	h.	Zone 122.		Zone 123.			
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.				
181	..	13 30 18.0	.....	.....	-0.38	.....	.....	.....	.....	.....	.....	13 30 17.62	.....	.....	.....
182	12	30 48.3	52.2	48.25	0.37	13 30 48.1	52.1	48.10	-0.24	.....	.....	30 47.88	47.86	+0.02	.....	
183	12	30 59.4	63.4	59.40	0.38	30 59.3	63.2	59.25	0.25	.....	.....	30 59.02	59.00	+0.02	.....	
184	10	31 23.8	27.7	23.75	0.38	31 23.6	27.6	23.60	0.25	.....	.....	31 23.37	23.35	+0.02	.....	
185	10	31 40.5	44.4	40.45	0.38	31 40.0	44.3	40.15	0.25	.....	.....	31 40.07	39.90	+0.17	.....	
186	12	32 12.4	16.4	12.40	0.38	.....	.....	.....	.....	.....	.....	32 12.02	.....	.....	.....
187	12	32 40.7	44.7	40.70	0.38	.....	.....	.....	.....	.....	.....	32 40.32	.....	.....	.....
188	..	35 40.5	.....	40.50	0.39	35 40.5	44.5	40.50	0.27	.....	.....	35 40.11	40.23	-0.12	.....	
189	..	35 42.2	46.0	42.10	0.40	35 42.1	45.9	42.00	0.27	.....	.....	35 41.70	41.73	-0.03	.....	
190	..	35 45.0	48.9	44.95	0.40	35 44.5	48.5	44.50	0.27	.....	.....	35 44.55	44.23	+0.32	.....	
191	..	35 58.8	62.5	58.65	0.40	35 58.4	62.4	58.40	0.28	.....	.....	35 58.25	58.12	+0.13	.....	
192	11	36 30.0	33.9	29.95	0.41	36 29.8	33.9	29.85	0.28	.....	.....	36 29.54	29.57	-0.03	.....	
193	..	37 3.0	7.3	3.15	0.41	37 2.8	6.8	2.80	0.28	.....	.....	37 2.74	2.52	+0.22	.....	
194	..	37 6.7	10.9	6.80	0.41	37	10.8	6.80	0.28	.....	.....	37 6.39	6.52	-0.13	.....	
195	10-11	37 47.4	51.4	47.40	0.42	37 47.2	51.1	47.15	0.29	.....	.....	37 46.98	46.86	+0.12	.....	
196	..	38 7.5	11.3	7.40	0.41	38 7.2	11.3	7.25	0.29	.....	.....	38 6.99	6.96	+0.03	.....	
197	12	38 15.1	19.0	15.05	0.41	38 14.9	18.8	14.85	0.29	.....	.....	38 14.64	14.56	+0.08	.....	
198	11	38 20.0	23.9	19.95	0.42	38 19.7	23.8	19.75	0.29	.....	.....	38 19.53	19.46	+0.07	.....	
199	11	38 52.2	56.1	52.15	0.42	38 52.1	56.1	52.10	0.29	.....	.....	38 51.73	51.81	-0.08	.....	
200	11-12	39 44.3	48.2	44.25	0.42	39 44.1	48.0	44.05	0.30	.....	.....	39 43.83	53.75	+0.08	.....	
201	11	40 0.5	4.4	0.45	0.42	40 0.4	4.4	0.40	0.30	.....	.....	40 0.03	0.10	-0.07	.....	
202	11	40 36.2	40.2	36.20	0.42	40 36.1	39.9	36.00	0.30	.....	.....	40 35.78	35.70	+0.08	.....	
203	11	40 42.2	46.1	42.15	0.43	40 41.9	45.7	41.80	0.30	.....	.....	40 41.72	41.50	+0.22	.....	
204	12	41 5.3	9.2	5.25	0.43	41 5.0	8.7	4.85	0.31	.....	.....	41 4.82	4.54	+0.28	.....	
205	..	.....	.....	.....	.....	41 45.4	49.5	45.45	0.31	.....	.....	41	45.14	.....	.....
206	12	42 28.9	33.0	28.95	0.44	42 28.8	32.6	28.70	0.31	.....	.....	42 28.51	28.39	+0.12	.....	
207	..	.....	.....	.....	.....	42 30.2	34.4	30.30	0.32	.....	.....	42	29.98	.....	.....
208	12	43 10.7	14.5	10.60	0.44	43 10.4	14.4	10.40	0.32	.....	.....	43 10.16	10.08	+0.08	.....	
209	11-12	43 17.3	21.0	17.15	0.44	43 17.0	20.9	16.95	0.32	.....	.....	43 16.71	16.63	+0.08	.....	
210	..	45 18.5	22.3	18.40	0.45	45 18.1	22.0	18.05	0.33	.....	.....	45 17.95	17.72	+0.23	.....	
211	12	46 13.3	17.4	13.35	0.45	46 13.1	16.9	13.00	0.34	.....	.....	46 12.90	12.66	+0.24	.....	
212	12	46 27.2	31.0	27.10	0.46	46 26.8	30.7	26.75	0.34	.....	.....	46 26.64	26.41	+0.23	.....	
213	12-13	46 59.6	63.5	59.55	0.46	46 59.5	63.5	59.50	0.34	.....	.....	46 59.09	59.16	-0.07	.....	
214	..	47 25.6	29.5	25.55	0.46	47 25.6	29.4	25.50	0.34	.....	.....	47 25.09	25.16	-0.07	.....	
215	12	48 15.7	19.6	15.65	0.46	48 15.5	19.4	15.45	0.35	.....	.....	48 15.19	15.10	+0.09	.....	
216	12	48 50.1	54.2	50.15	0.46	48 49.8	53.8	49.80	0.35	.....	.....	48 49.69	49.45	+0.24	.....	
217	12	49 21.6	.....	21.60	0.47	49 21.4	25.3	21.35	0.36	.....	.....	49 21.13	20.99	+0.14	.....	
218	10	49 37.5	41.5	37.50	0.48	49 37.4	41.4	37.40	0.36	.....	.....	49 37.02	37.04	-0.02	.....	
219	12-13	50 49.9	53.9	49.90	0.48	50 49.9	53.9	49.90	0.36	.....	.....	50 49.42	49.54	-0.12	.....	
220	12	51 43.2	47.2	43.20	0.48	51 42.8	46.9	42.85	0.37	.....	.....	51 42.72	42.48	+0.24	.....	
221	11	52 12.0	15.8	11.90	0.48	52 11.7	15.7	11.70	0.37	.....	.....	52 11.42	11.33	+0.09	.....	
222	12	53 0.6	4.5	0.55	0.49	53 0.3	4.1	0.20	0.38	.....	.....	52 60.06	59.82	+0.24	.....	
223	11	53 19.8	23.8	19.80	0.49	53 19.7	23.6	19.65	0.38	.....	.....	53 19.31	19.27	+0.04	.....	
224	12	53 30.2	34.0	30.10	0.49	53 29.8	.....	29.80	0.38	.....	.....	53 29.61	29.50	+0.11	.....	
225	12	13 53 54.9	58.9	54.90	-0.50	13 53 54.7	58.7	54.70	-0.38	.....	.....	13 53 54.40	54.32	+0.08	.....	

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 123.	d.	Zone 122.	Zone 123.		
181	' "	"	' "	"	° ' "	"	"	
182	+ 6 51	- 1.5	+ 6 48	+ 1.8	+ 0 56 49.5	49.8	- 0.3	
183	5 5	1.7	5 0	2.0	0 55 3.3	2.0	+ 1.3	
184	8 9	1.3	8 5	1.7	0 58 7.7	6.7	+ 1.0	
185	9 38	1.1	9 31	1.6	0 59 36.9	32.6	+ 4.3	
186	6 38	1.5	....	...	0 56 36.5	....	...
187	9 30	1.2	....	...	0 59 28.8	....	...
188	7 34	1.5	7 30	1.8	0 57 32.5	31.8	+ 0.7	
189	....	...	6 30	1.8	0 56	31.8	...	
190	5 9	1.8	5 11	1.9	0 59 7.2	12.9	- 5.7	
191	6 8	1.7	6 4	1.9	0 56 6.3	5.9	+ 0.4	
192	5 47	1.7	4 42	2.0	0 55 45.3	44.0	+ 1.3	
193	....	...	2 6	2.2	0 52	8.2	...	
194	....	...	3 42	2.1	0 53	44.1	...	
195	2 21	2.1	2 18	2.1	0 52 18.9	20.1	- 1.2	
196	10 23	1.2	10 28	1.6	1 0 21.8	29.6	- 7.8	
197	5 47	1.7	4 44	2.0	0 55 45.3	46.0	- 0.7	
198	3 50	1.9	2 46	2.1	0 53 48.1	48.1	0.0	Telescope moved. Zone 123.
199	2 28	2.1	2 23	2.1	0 52 25.9	25.1	+ 0.8	
200	7 50	1.5	7 47	1.8	0 57 48.5	49.8	- 1.3	
201	7 13	1.6	7 9	1.8	0 57 11.4	10.8	+ 0.6	
202	10 9	1.3	10 5	1.6	1 0 7.7	6.6	+ 1.1	
203	4 41	1.9	4 39	2.0	0 54 39.1	41.0	- 1.9	
204	9 30	1.4	9 29	1.6	0 59 28.6	30.6	- 2.0	
205	....	...	10 43	1.6	1 0	44.6	...	
206	2 5	2.2	2 0	2.2	0 52 2.8	2.2	+ 0.6	
207	....	...	2 40	2.0	0 52	42.0	...	
208	5 46	1.8	5 40	1.9	0 55 44.2	41.9	+ 2.3	
209	3 18	2.1	3 11	2.1	0 53 15.9	13.1	+ 2.8	
210	....	...	2 51	2.1	0 52	53.1	...	
211	6 10	1.8	6 5	1.9	0 56 8.2	6.9	+ 1.3	
212	2 11	2.3	2 6	2.2	0 52 8.7	8.2	+ 0.5	Double?
213	6 13	1.8	6 10	1.9	0 56 11.2	11.9	- 0.7	Comp., n. f. 23".
214	....	...	4 17	2.0	0 54	19.0	...	
215	7 5	1.8	7 0	1.8	0 57 3.2	1.8	+ 1.4	
216	9 27	1.5	9 20	1.6	0 59 25.5	21.6	+ 3.9	
217	10 39	1.4	10 39	1.6	1 0 37.6	40.6	- 3.0	
218	2 31	2.3	2 28	2.1	0 52 28.7	30.1	- 1.4	
219	6 9	1.9	6 2	1.9	0 56 7.1	3.9	+ 3.2	
220	9 3	1.6	9 0	1.7	0 59 1.4	1.7	- 0.3	
221	8 9	1.8	8 5	1.7	0 58 7.2	6.7	+ 0.5	
222	4 9	2.2	4 4	2.0	0 54 6.8	6.0	+ 0.8	
223	5 29	2.1	5 24	1.9	0 55 26.9	25.9	+ 1.0	
224	6 19	2.0	6 18	1.8	0 56 17.0	19.8	- 2.8	
225	+ 3 55	- 2.2	+ 3 49	+ 2.0	+ 0 53 52.8	51.0	+ 1.8	Double?

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 122.					ZONE 123.					MEAN RIGHT ASCENSION 1859.0					Difference.
		First Wire.				Mean red. to 1st Wire.	First Wire.				Mean red. to 1st Wire.	Zone 122.				Zone 123.	
		h.	m.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.	s.	s.	s.	
226	12	13	54	25.3	29.4	25.35	13	54	25.4	29.3	25.35	13	54	24.85	24.96	-0.11	
227	10		54	51.0	55.1	51.05		54	50.9	55.0	50.95		54	50.55	50.56	-0.01	
228	12		55	24.3	28.1	24.20		55	23.9	27.9	23.90		55	23.69	23.51	+0.18	
229	11		56	7.7	11.7	7.70		56	7.4	11.4	7.40		56	7.19	7.00	+0.19	
230	11		57	14.0	18.0	14.00		57	13.9	17.8	13.85		57	13.48	13.45	+0.03	
231	11		57	16.1	20.0	16.05		57	16.1	19.7	15.90		57	15.53	15.50	+0.03	
232	11		57	21.9	25.8	21.85		57	21.7	25.2	21.45		57	21.33	21.05	+0.28	
233	11		57	....	29.7	25.70		57	25.8	....	25.80		57	25.18	25.40	-0.22	
234	11		57	45.2	49.3	45.25		57	....	49.0	45.00		57	44.72	44.59	+0.13	
235	12		....	....	....	....		58	44.6	48.4	44.50		58	....	44.09	....
236	11-12	13	58	50.3	54.3	50.30	13	58	50.2	54.3	50.25	13	58	49.78	49.84	-0.06	
237	..	14	0	15.3	....	15.30		....	....	....	....	14	0	14.77	....	....
238	..		0	23.3	27.4	23.35	14	0	23.2	27.1	23.15		0	22.81	22.73	+0.08	
239	9-10		0	58.8	62.9	58.85		....	....	....	....		0	58.31	....	....
240	12		1	3.4	7.4	3.40		1	3.3	7.4	3.35		1	2.86	2.92	-0.06	
241	12-13		2	....	6.0	2.00		....	....	....	....		2	1.45	....	....
242	12		2	9.0	....	9.00		2	8.8	12.9	8.85		2	8.45	8.42	+0.03	
243	10		2	51.2	55.1	51.15		2	51.1	55.1	51.10		2	50.60	50.66	-0.06	
244	11-12		3	7.9	11.9	7.90		3	8.0	11.9	7.95		3	7.35	7.51	-0.16	
245	12		3	14.1	....	14.10		3	14.1	....	14.10		3	13.55	13.66	-0.11	
246	10-11		3	47.4	51.2	47.30		3	47.2	51.2	47.20		3	46.75	46.76	-0.01	
247	11		4	14.6	18.5	14.55		4	14.5	18.4	14.45		4	14.00	14.00	0.00	
248	10		5	39.1	43.0	39.05		5	39.0	43.1	39.05		5	38.49	38.60	-0.11	
249	12		5	43.4	47.8	43.60		5	42.7	46.6	42.65		5	43.04	42.20	-0.16	
250	12		5	50.0	53.9	49.95		5	49.8	....	49.80		5	49.39	49.35	+0.04	
251	12		....	....	28.3	....		6	21.3	25.3	21.30		....	....	....	....
252	12		6	24.4	28.3	24.35		6	24.0	28.0	24.00		6	23.79	23.54	+0.25	
253	11		6	31.0	35.0	31.00		6	30.7	34.9	30.80		6	30.44	30.34	+0.10	
254	12		6	47.8	51.9	47.85		6	47.5	51.5	47.50		6	47.28	47.04	+0.24	
255	11		6	....	56.0	52.00		6	52.0	55.9	51.95		6	51.43	51.49	-0.06	
256	11-12		7	5.4	9.1	5.25		7	5.2	9.0	5.10		7	4.68	4.64	+0.04	
257	10-11		7	38.7	42.7	38.70		7	38.5	42.4	38.45		7	38.13	37.98	+0.15	
258	12		....	....	....	0.57		7	....	45.1	41.10		7	....	40.63	....
259	12		7	44.2	48.1	44.15		7	44.1	48.0	44.05		7	43.58	43.58	0.00	
260	12		8	50.2	54.2	50.20		8	49.6	....	49.60		8	49.62	49.13	+0.49	
261	12		8	51.1	55.1	51.10		8	50.6	54.6	50.60		8	50.52	50.13	+0.39	
262	12		8	58.7	....	58.70		8	58.1	....	58.10		8	58.12	57.63	+0.49	
263	12		9	13.0	17.0	13.00		9	12.8	16.5	12.65		9	12.42	12.17	+0.25	
264	12		9	54.3	58.4	54.35		9	54.5	58.2	54.35		9	53.77	53.87	-0.10	
265	12		10	6.1	10.0	6.05		10	5.7	9.9	5.80		10	5.46	5.32	+0.14	
266	..	14	10	20.3	24.1	20.20		10	20.4	24.3	20.35		10	19.61	19.87	-0.26	
267	..		....	....	....	....		10	23.9	28.0	23.95		10	....	23.47	....
268	..		....	....	....	....		11	7.2	11.3	7.25		11	....	6.76	....
269	..		....	....	....	....		11	51.9	56.1	52.00		11	....	51.51	....
270	..		....	....	....	....		14	12	....	4.0	0.00	14	11	....	59.51	....

A.R. ^{h.}11 ^{m.}54 to ^{h.}14 ^{m.}12.Dec. +^o50 to ^o10.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 122.	d.	Zone 122.	Zone 122.		
226	+ 1 41	- 2.9	+ 1 40	+ 2.2	+ 0 51 38.1	42.2	- 4.1	
227	5 3	3.2	4 58	2.0	0 54 59.8	60.0	- 0.2	
228	3 8	3.0	3 7	2.1	0 53 5.0	9.1	- 4.1	
229	9 32	3.8	9 28	1.6	0 59 28.2	29.6	- 1.4	
230	5 26	3.3	5 20	1.9	0 55 22.7	21.9	+ 0.8	
231	3 55	3.2	3 40	2.0	0 53 51.8	42.0	+ 9.8	
232	4 38	3.3	+ 4 30	2.0	0 54 34.7	32.0	+ 2.7	
233	+ 1 53	3.0	....	...	0 51 50.0	....	....
234	- 0 2	2.8	- 0 8	2.3	0 49 55.2	54.3	+ 0.9	
235	....	...	+10 0	1.6	1 0	1.6	....
236	+ 5 40	3.4	5 34	1.9	0 55 36.6	35.9	+ 0.7	
237	7 50	3.7	....	...	0 57 46.3	....	....	Two stars passed.
238	....	...	1 48	2.2	0 51	50.2	....
239	2 29	3.1	....	...	0 52 25.9	....	....	Comp., f., 18".
240	2 53	3.2	2 50	2.1	0 52 49.8	52.1	- 2.3	
241	3 1	3.2	3 0	2.1	0 52 57.8	62.1	- 4.3	
242	1 0	3.0	0 53	2.2	0 50 57.0	55.2	+ 1.8	
243	6 30	3.6	6 28	1.8	0 56 26.4	29.8	- 3.4	
244	6 38	3.6	6 33	1.8	0 56 34.4	34.8	- 0.4	
245	5 0	3.4	....	...	0 54 56.6	....	....
246	4 59	3.4	4 53	2.0	0 54 55.6	55.0	+ 0.6	
247	7 28	3.7	7 23	1.8	0 57 24.3	24.8	- 0.5	
248	10 28	4.1	10 23	1.6	1 0 23.9	24.6	- 0.7	
249	9 49	4.0	9 30	1.6	0 59 45.0	31.6	+13.4	
250	9 50	4.0	9 49	1.6	0 59 46.0	50.6	- 4.6	
251	....	...	10 50	1.6	1 0 ...	51.6	....
252	9 12	4.0	9 9	1.7	0 59 8.0	10.7	- 2.7	
253	6 8	3.7	6 1	1.9	0 56 4.3	2.9	+ 1.4	
254	5 49	3.6	5 41	1.9	0 54 45.4	42.9	+ 2.5	
255	7 18	3.8	7 13	1.8	0 57 14.2	14.8	- 0.6	
256	....	...	10 51	1.5	1 0 ...	52.5	....
257	4 52	3.6	4 48	2.0	0 54 48.4	50.0	- 1.6	
258	....	...	9 33	1.6	0 59 ...	34.6	....
259	8 19	3.9	8 14	1.7	0 58 15.1	15.7	- 0.6	
260	2 30	3.3	2 25	2.1	0 52 26.7	27.1	- 0.4	
261	5 52	3.7	5 46	1.9	0 55 48.3	47.9	+ 0.4	
262	4 52	3.6	4 45	2.0	0 54 48.4	47.0	+ 1.4	
263	4 29	3.6	4 34	2.0	0 54 25.4	36.0	-10.6	
264	4 10	3.5	4 5	2.0	0 54 6.5	7.0	- 0.5	10th mag. star passed.
265	+ 4 19	- 3.6	0 48	2.2	0 54 15.4	50.2	-34.8	
266	....	...	0 0	2.3	0 50 ...	2.3	....
267	....	...	0 47	2.2	0 50 ...	49.2	....
268	....	...	4 40	2.0	0 54 ...	42.0	....
269	....	...	6 55	1.8	0 56 ...	56.8	....
270	....	...	+ 1 11	+ 2.2	+ 0 51 ...	13.2	....

ZONE OBSERVATIONS.

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. ⁰+0 40 to ⁰0 50.

Number of the Star.	Magnitude.	ZONE 124.					ZONE 125.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 124.	Zone 125.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
1	9	13 55 22.0	25.9	21.95	+0.06	13 55 21.7	25.8	21.75	+0.24	13 55 22.01	21.99	+0.02		
2	13	56 52.7	56.5	52.60	0.06	56	56.9	52.90	0.24	56 52.66	53.14	-0.48		
3	12	57 34.3	37.9	34.10	0.06	57 34.0	37.9	33.95	0.23	57 34.16	34.18	-0.02		
4	12	57 45.0	48.8	44.90	0.06	57 44.9	48.8	44.85	0.23	57 44.96	45.08	-0.12		
5	11	58 39.0	42.8	38.90	0.06	58 38.9	42.8	38.85	0.23	58 38.96	39.08	-0.12		
6	12-13	.....	.....	.....	.....	58	47.1	43.10	0.23	58	43.33	.....	
7	..	13 59	38.9	34.90	0.06	13 59 34.8	39.0	34.90	0.23	13 59 34.96	35.13	-0.17		
8	12	14 0 49.3	52.9	49.10	0.06	.....	.....	.....	.....	14 0 49.16	.....	.....
9	12	1 27.1	31.0	27.05	0.06	14 1 26.9	30.9	26.90	0.23	1 27.11	27.13	-0.02		
10	11-12	2 19.0	23.0	19.00	0.06	2 18.9	22.6	18.85	0.22	2 19.06	19.07	-0.01		
11	11-12	2 31.4	35.3	31.35	0.06	2 31.1	35.1	31.10	0.22	2 31.41	31.32	+0.09		
12	11	3 20.5	24.4	20.45	0.06	3 20.4	24.4	20.40	0.22	3 20.51	20.62	-0.11		
13	11	3 56.9	60.8	56.85	0.06	3 56.7	60.7	56.70	0.22	3 56.91	56.92	-0.01		
14	12	4 16.9	20.7	16.80	0.06	4 16.5	20.3	16.40	0.22	4 16.86	16.62	+0.24		
15	12	4 52.7	56.5	52.60	0.06	4 52.4	56.4	52.40	0.22	4 52.66	52.62	+0.04		
16	12	5 28.0	31.9	27.95	0.05	5 27.8	31.9	27.85	0.21	5 28.00	28.06	-0.06		
17	12-13	6 2.1	6.1	2.10	0.05	6 1.9	5.9	1.90	0.21	6 2.15	2.11	+0.04		
18	..	.....	.....	.....	.....	8 11.0	14.8	10.90	0.21	8	11.11	.....	
19	12-13	8 22.8	26.5	22.65	0.05	.....	.....	.....	.....	8 22.70	.....	.....
20	13	8 52.7	56.6	52.65	0.05	8	56.4	52.40	0.20	8 52.70	52.60	+0.10		
21	12	9 51.5	.....	51.50	0.05	9 51.6	.....	51.60	0.20	9 51.55	51.80	-0.25
22	12-13	9	59.0	55.00	0.05	9 55.3	59.3	55.30	0.20	9 55.05	55.50	-0.45		
23	13	11 1.8	5.7	1.75	0.05	11 1.7	5.6	1.65	0.20	11 1.80	1.85	-0.05		
24	13	11 19.5	23.3	19.40	0.05	11 19.3	23.5	19.40	0.20	11 19.45	19.60	-0.15		
25	12	11 54.9	59.1	55.00	0.05	11 54.9	58.8	54.85	0.20	11 55.05	55.05	0.00		
26	12	12 12.4	16.3	12.35	0.05	12 12.4	16.2	12.30	0.20	12 12.40	12.50	-0.10		
27	12	12 19.3	23.3	19.30	0.05	12 19.3	23.3	19.30	0.20	12 19.35	19.50	-0.15		
28	13	13 4.8	8.5	4.65	0.05	13 4.4	8.7	4.55	0.19	13 4.70	4.74	-0.04		
29	7, 8, 9	13 17.6	21.5	17.55	0.05	13 17.4	2.3	17.35	0.19	13 17.60	17.54	+0.06		
30	12	13 35.6	39.6	35.60	0.05	13 35.5	39.5	35.50	0.19	13 35.65	35.69	-0.04		
31	12	14 23.8	27.9	23.85	0.05	14 23.7	27.9	23.80	0.19	14 23.90	23.99	-0.09		
32	9-10	16 21.2	25.0	21.10	0.05	16 20.9	24.8	20.85	0.19	16 21.15	21.04	+0.11		
33	12-13	16 58.0	61.9	57.95	0.05	16 57.9	61.7	57.80	0.19	16 58.00	57.99	+0.01		
34	12	17 21.5	25.3	21.40	0.05	17 21.3	25.3	21.30	0.19	17 21.45	21.49	-0.04		
35	10	17 23.2	27.1	23.15	0.05	17 23.2	27.2	23.20	0.19	17 23.20	23.39	-0.19		
36	13	18	47.5	43.50	0.05	18 43.2	47.2	43.20	0.18	18 43.55	43.38	+0.17		
37	10-11	19 10.8	14.7	10.75	0.05	19 10.8	14.7	10.75	0.18	19 10.80	10.93	-0.13		
38	12-13	19 37.7	41.8	37.75	0.05	19 37.4	41.4	37.40	0.18	19 37.80	37.58	+0.22		
39	11, 12, 13	19 40.0	43.8	39.90	0.05	19 39.8	43.7	39.75	0.18	19 39.95	39.93	+0.02		
40	13	20 10.5	14.3	10.40	0.05	20 10.2	.....	10.20	0.18	20 10.45	10.38	+0.07	
41	10	20 33.9	38.1	34.00	0.05	20 33.9	37.8	33.85	0.18	20 34.05	34.03	+0.02		
42	11-12	21 55.0	59.0	55.00	0.05	21 54.8	58.9	54.85	0.17	21 55.05	55.02	+0.03		
43	10-11	21 57.9	61.9	57.90	0.05	21 57.8	61.8	57.80	0.17	21 57.95	57.97	-0.02		
44	13	22 38.8	42.6	38.70	0.05	22	42.3	38.30	0.17	22 38.75	38.47	+0.28		
45	12	14 22 48.1	52.1	48.10	+0.05	14 22 48.0	52.1	48.05	+0.17	14 22 48.15	48.22	-0.07		

A.R. ^{h.}13 ^{m.}53 to ^{h.}16 ^{m.}8.

Dec. +0 40 to 0 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 124.	d.	Zone 125.	d.	Zone 124.	Zone 125.		
1	+ 3 36	+ 2.2	+ 3 39	+ 0.6	+ 0 43 38.2	39.6	- 1.4	
2	1 0	2.2	1 0	0.7	0 41 2.2	0.7	+ 1.5	
3	7 59	1.9	8 0	0.4	0 48 0.9	0.4	+ 0.5	
4	10 0	1.8	10 0	0.4	0 50 1.8	0.4	+ 1.4	
5	8 37	1.8	8 38	0.4	0 48 38.8	38.4	+ 0.4	
6	7 12	1.9	7 11	0.4	0 47 13.9	11.4	+ 2.5	
7	7 39	1.8	7 39	0.3	0 47 40.8	39.3	+ 1.5	
8	7 44	1.8	....	...	0 47 45.8	....	....
9	3 19	2.0	3 20	0.5	0 43 21.0	20.5	+ 0.5	
10	0 54	2.1	0 57	0.5	0 40 56.1	57.5	- 1.4	
11	2 38	2.0	2 39	0.5	0 42 40.0	39.5	+ 0.5	
12	2 11	2.0	2 14	0.4	0 42 13.0	14.4	- 1.4	
13	3 8	1.9	3 9	0.4	0 43 9.9	9.4	+ 0.5	
14	8 40	1.6	8 41	0.2	0 48 41.6	41.2	+ 0.4	
15	....	...	1 41	0.4	0 41	41.4	....
16	6 18	1.7	6 18	0.3	0 46 19.7	18.3	+ 1.4	
17	1 42	1.9	1 44	0.4	0 41 43.9	44.4	- 0.5	
18	....	...	....	...	....	....	....
19	9 21	1.5	9 20	0.1	0 49 22.5	20.1	+ 2.4	
20	3 22	1.8	3 26	0.2	0 43 23.8	26.2	- 2.4	
21	9 50	1.4	9 50	0.0	0 49 51.4	50.0	+ 1.4	
22	6 19	1.6	6 19	0.1	0 46 20.6	19.1	+ 1.5	
23	1 9	1.8	1 9	0.2	0 41 10.8	9.2	+ 1.6	
24	2 28	1.7	2 29	0.2	0 42 29.7	29.2	+ 0.5	
25	9 51	1.3	9 40	0.0	0 49 52.3	40.0	+12.3	
26	8 16	1.4	8 17	0.0	0 48 17.4	17.0	+ 0.4	
27	0 36	1.8	0 38	0.2	0 40 37.8	38.2	- 0.4	
28	2 18	1.7	2 18	+ 0.1	0 42 19.7	18.1	+ 1.6	
29	10 1	1.3	10 0	- 0.1	0 49 62.3	59.9	+ 2.4	
30	4 14	1.5	4 16	+ 0.1	0 44 15.5	16.1	- 0.6	
31	4 1	1.5	4 4	0.0	0 44 2.5	4.0	- 1.5	
32	1 22	1.6	1 23	0.1	0 41 23.6	23.1	+ 0.5	
33	0 45	1.6	0 44	+ 0.1	0 40 46.6	44.1	+ 2.5	
34	7 9	1.2	7 9	- 0.1	0 47 10.2	8.9	+ 1.3	
35	0 21	1.6	0 24	+ 0.1	0 40 22.6	24.1	- 1.5	
36	1 0	1.5	1 0	0.0	0 41 1.5	0.0	+ 1.5	
37	7 15	1.2	7 16	- 0.2	0 47 16.2	15.8	+ 0.4	
38	2 57	1.4	2 58	0.1	0 42 58.4	57.9	+ 0.5	
39	0 37	1.5	0 39	0.1	0 40 38.5	38.9	- 0.4	
40	1 51	1.4	1 51	0.1	0 41 52.4	50.9	+ 1.5	
41	4 37	1.3	4 38	0.1	0 44 38.3	37.9	+ 0.4	Comp., s. p. 8".
42	3 2	1.3	3 22	0.2	0 43 3.3	21.8	....
43	+ 5 10	+ 1.2	5 11	0.2	0 45 11.2	10.8	+ 0.4	
44	....	...	3 18	0.2	0 43	17.8	....
45	....	...	+ 2 19	- 0.1	+ 0 42	18.9	....

ZONE OBSERVATIONS.

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. ⁰+0 40 to ⁰0 50.

Number of the Star.	Magnitude.	ZONE 124.					ZONE 125.					MEAN RIGHT ASCENSION. 1859.0					Difference.						
		First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	Zone 124.		Zone 125.											
										h.	m.	s.	h.	m.	s.	h.		m.	s.				
46	..	14	23	37.1	40.8	36.95	+0.05	14	23	36.8	40.9	36.85	+0.17	14	23	37.00	37.02	-0.02					
47	12	.....	.....	.....	.....	.....	.....	23	49.7	53.8	49.75	0.17	23	.....	.....	49.92	.....	.....			
48	12-13	25	5.9	9.9	5.90	0.04	.....	25	5.6	9.4	5.50	0.16	25	5.94	5.66	+0.28	25	14.39	.....	.....	
49	12-13	25	14.4	18.3	14.35	0.04	.....	.....	.....	.....	.....	.....	25	14.39	.....	.....	25	57.14	57.06	+0.08
50	12-13	25	57.1	61.1	57.10	0.04	.....	25	56.9	60.9	56.90	0.16	25	57.14	57.06	+0.08	25	57.14	57.06	+0.08		
51	13	27	23.7	27.6	23.65	0.04	.....	.....	.....	.....	.....	.....	27	23.69	.....	.....	27	23.69	.....	.....	
52	13	.....	.....	.....	.....	.....	.....	27	.....	51.5	47.50	0.16	27	.....	47.66	.....	27	.....	47.66	.....		
53	12	27	59.7	63.6	59.65	0.04	.....	27	.....	63.3	59.30	0.16	27	59.69	59.46	+0.23	27	59.69	59.46	+0.23	
54	8-9	28	47.2	51.1	47.15	0.04	.....	28	47.1	51.1	47.10	0.15	28	47.19	47.25	-0.06	28	47.19	47.25	-0.06		
55	12	30	29.1	32.8	28.95	0.04	.....	30	28.8	82.7	28.75	0.15	34	28.99	28.90	+0.09	34	28.99	28.90	+0.09		
56	12	30	35.3	39.3	35.30	0.04	.....	30	35.5	.....	35.50	0.15	30	35.34	35.65	-0.31	30	35.34	35.65	-0.31	
57	11	30	49.2	53.0	49.10	0.04	.....	30	49.2	53.1	49.15	0.15	30	49.14	49.30	-0.16	30	49.14	49.30	-0.16		
58	12	32	25.7	29.7	25.70	0.04	.....	32	25.4	29.2	25.30	0.15	32	25.74	25.45	+0.29	32	25.74	25.45	+0.29		
59	12	32	48.1	52.1	48.10	0.04	.....	32	48.0	52.1	48.05	0.14	32	48.14	48.19	-0.05	32	48.14	48.19	-0.05		
60	12-13	32	53.7	57.9	53.80	0.04	.....	32	53.6	57.5	53.55	0.14	32	53.84	53.69	+0.15	32	53.84	53.69	+0.15		
61	12	33	40.3	44.3	40.30	0.04	.....	33	40.2	44.2	40.20	0.14	33	40.34	40.34	0.00	33	40.34	40.34	0.00		
62	..	33	50.3	54.0	50.15	0.04	.....	33	49.8	53.9	49.85	0.14	33	50.19	49.99	+0.20	33	50.19	49.99	+0.20		
63	8-9	34	14.2	18.0	14.10	0.04	.....	34	14.1	17.9	14.00	0.14	34	14.14	14.14	0.00	34	14.14	14.14	0.00		
64	12	.....	.....	.....	.....	.....	.....	34	.....	22.0	18.00	0.14	34	.....	18.14	.....	34	.....	18.14	.....		
65	12-13	35	.....	14.2	10.20	0.03	.....	35	10.0	14.0	10.00	0.14	35	10.23	10.14	+0.09	35	10.23	10.14	+0.09	
66	12	35	12.0	15.7	11.85	0.03	.....	35	11.6	15.6	11.60	0.14	35	11.88	11.74	+0.14	35	11.88	11.74	+0.14		
67	11-12	35	27.4	31.4	27.40	0.03	.....	35	27.2	31.2	27.20	0.14	35	27.43	27.34	+0.09	35	27.43	27.34	+0.09		
68	12-13	35	55.0	58.8	54.90	0.03	.....	35	54.7	58.5	54.60	0.14	35	54.93	54.74	+0.19	35	54.93	54.74	+0.19		
69	10-11	36	11.3	15.4	11.35	0.03	.....	36	11.2	15.3	11.25	0.14	36	11.38	11.39	-0.01	36	11.38	11.39	-0.01		
70	12	36	41.0	45.0	41.00	0.03	.....	36	40.8	45.0	40.90	0.14	36	41.03	41.04	-0.01	36	41.03	41.04	-0.01		
71	13	37	28.5	32.4	28.45	0.03	.....	.....	.....	.....	.....	.....	37	28.48	.....	.....	37	28.48	.....	.....	
72	11	37	29.1	33.2	29.15	0.03	.....	37	29.1	32.7	28.90	0.14	37	29.18	29.04	+0.14	37	29.18	29.04	+0.14		
73	12	39	14.3	18.1	14.20	0.03	.....	.....	.....	.....	.....	.....	39	14.23	.....	.....	39	14.23	.....	.....	
74	12-13	.....	.....	.....	.....	.....	.....	39	47.1	.....	47.10	0.13	39	.....	47.23	.....	39	.....	47.23	.....		
74	12-13	39	51.5	55.4	51.45	0.03	.....	39	51.5	55.6	51.55	0.13	39	51.48	51.68	-0.20	39	51.48	51.68	-0.20		
76	12	40	59.1	63.0	59.05	0.03	.....	40	59.0	.....	59.00	0.13	40	59.08	59.13	-0.05	40	59.08	59.13	-0.05	
77	12	41	.....	7.0	3.00	0.03	.....	41	3.2	7.3	3.25	0.13	41	3.03	3.38	-0.35	41	3.03	3.38	-0.35	
78	11-12	41	18.3	22.4	18.35	0.03	.....	41	18.3	22.2	18.25	0.13	41	18.38	18.38	0.00	41	18.38	18.38	0.00		
79	11-12	41	34.3	38.1	34.20	0.03	.....	41	34.3	38.2	34.25	0.13	41	34.23	34.38	-0.15	41	34.23	34.38	-0.15		
80	12-13	41	44.1	48.1	44.10	0.03	.....	.....	.....	.....	.....	.....	41	44.13	.....	.....	41	44.13	.....	.....	
81	12-13	42	16.1	19.9	16.00	0.03	.....	42	16.1	19.9	16.00	0.12	42	16.03	16.12	-0.09	42	16.03	16.12	-0.09		
82	12-13	42	21.5	25.2	21.35	0.03	.....	42	21.2	25.5	21.35	0.12	42	21.38	21.47	-0.09	42	21.38	21.47	-0.09		
83	12	42	47.6	51.6	47.60	0.03	.....	42	47.5	51.7	47.60	0.12	42	47.63	47.72	-0.09	42	47.63	47.72	-0.09		
84	11-12	43	59.6	63.5	59.55	0.03	.....	43	59.4	63.3	59.35	0.12	43	59.58	59.47	+0.11	43	59.58	59.47	+0.11		
85	11	44	33.7	37.8	33.75	0.03	.....	44	33.7	37.6	33.65	0.12	44	33.78	33.77	+0.01	44	33.78	33.77	+0.01		
86	11-12	44	41.7	45.5	41.60	0.03	.....	44	41.6	45.6	41.60	0.12	44	41.63	41.72	-0.09	44	41.63	41.72	-0.09		
87	12	44	53.0	56.8	52.90	0.03	.....	44	52.8	56.9	52.85	0.12	44	52.93	52.97	-0.04	44	52.93	52.97	-0.04		
88	12	45	8.0	12.2	8.10	0.03	.....	45	8.3	12.0	8.15	0.11	45	8.13	8.26	-0.13	45	8.13	8.26	-0.13		
89	10	45	18.6	22.7	18.65	0.03	.....	45	18.5	22.6	18.55	0.11	45	18.68	18.66	+0.02	45	18.68	18.66	+0.02		
90	9,10,11	14	45	32.3	36.2	32.25	+0.03	14	45	32.3	36.4	32.35	+0.11	14	45	32.28	32.46	-0.18	14	45	32.28	32.46	-0.18

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 124.	d.	Zone 125.	d.	Zone 124.	Zone 125.		
46	.....	...	.....	...	.....	.....	...
47	.....	...	.....	...	.....	.....	...
48	.....	...	+ 3 29	- 0.3	+ 0 43 28.7	28.7	...	
49	.....	...	.....	...	.....	.....	...
50	+ 4 20	+ 1.1	4 20	0.4	0 44 21.1	19.6	+ 1.5	
51	1 3	1.2	.....	...	0 41 4.2	.....	...
52	.....	...	1 23	0.3	0 41	22.7	...	
53	8 8	0.9	8 10	0.6	0 48 8.9	9.4	- 0.5	
54	10 11	0.7	10 12	0.7	0 50 11.7	11.3	+ 0.4	Meteor passed over the field.
55	10 0	0.7	9 23	0.8	0 49 60.7	22.2	+38.5	
56	+ 8 50	0.7	+ 8 49	0.8	0 48 50.7	48.2	+ 2.5	
57	- 0 7	1.2	- 0 8	0.3	0 39 54.2	51.7	+ 2.5	
58	+ 7 42	0.8	+ 7 43	0.7	0 47 42.8	42.3	+ 0.5	
59	7 28	0.8	7 29	0.7	0 47 28.8	28.3	+ 0.5	
60	.....	...	7 45	0.7	0 47	44.3	...	
61	7 27	0.7	7 28	0.7	0 47 27.7	27.3	+ 0.4	
62	.....	...	10 43	0.9	0 50	42.1	...	
63	2 37	0.9	2 37	0.5	0 42 37.9	36.5	+ 1.4	
64	.....	...	2 27	0.5	0 42	26.5	...	
65	7 58	0.6	7 56	0.8	0 47 58.6	55.2	+ 3.4	
66	.....	...	8 48	0.8	0 48	47.2	...	
67	6 52	0.7	6 53	0.8	0 46 52.7	52.2	+ 0.5	
68	4 19	0.8	4 19	0.6	0 44 19.8	18.4	+ 1.4	
69	1 51	1.0	1 52	0.5	0 41 52.0	51.5	+ 0.5	
70	5 51	0.7	5 51	0.7	0 45 51.7	50.3	+ 1.4	
71	5 10	0.7	.....	...	0 45 10.7	.....	...
72	5 58	0.7	5 59	0.7	0 45 58.7	58.3	+ 0.4	
73	6 49	0.6	.....	...	0 46 49.6	.....	...
74	.....	...	.....	...	.....	.....	...
75	6 30	0.6	6 29	0.8	0 46 30.6	28.2	+ 2.4	
76	0 46	0.8	0 46	0.5	0 46 46.8	45.5	+ 1.3	
77	1 50	0.8	1 51	0.6	0 41 50.8	50.4	+ 0.4	
78	3 18	0.7	3 19	0.7	0 43 18.7	18.3	+ 0.4	
79	1 0	0.8	1 1	0.6	0 41 0.8	0.4	+ 0.4	
80	1 31	0.8	1 30	0.6	0 41 31.8	29.4	+ 2.4	
81	2 26	0.7	2 26	0.7	0 42 26.7	25.3	+ 1.4	
82	4 11	0.6	4 11	0.8	0 44 11.6	10.2	+ 1.4	
83	1 30	0.7	1 29	0.6	0 41 30.7	28.4	+ 2.3	
84	3 45	0.6	3 47	0.7	0 43 45.6	46.3	- 0.7	
85	6 1	0.4	6 4	0.9	0 46 1.4	3.1	- 1.7	
86	4 26	0.5	4 27	0.8	0 44 26.5	26.2	+ 0.3	
87	3 45	0.5	3 7	0.8	0 43 45.5	46.2	- 0.7	
88	3 13	0.5	3 12	0.8	0 43 13.5	11.2	+ 2.3	
89	2 8	0.6	2 11	0.7	0 42 8.6	10.3	- 1.7	
90	+ 3 10	+ 0.5	+ 3 12	- 0.8	+ 0 43 10.5	11.2	- 0.7	

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. +⁰40 to ⁰50.

Number of the Star.	Magnitude.	ZONE 124.						ZONE 125.						MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red to 1st Wire.	k.	Zone 124.		Zone 125.		
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	
91	12-13	14	45	33.1	37.2	33.15	+0.03	.....	.....	.....	.....	.....	14	45	33.18	.....	.....
92	12-13		46	0.5	4.5	0.50	0.03	.....	.....	.....	.....	.....		46	0.53	.....	.....
93	12		46	51.8	55.8	51.80	0.03	14	46	51.6	55.9	51.75	+0.11		46	51.83	51.86	-0.03
94	..		46	53.4	57.4	53.40	0.03		46	53.4	57.2	53.30	0.11		46	53.43	53.41	+0.02
95	10		46	58.6	62.3	58.45	0.03		46	58.4	62.4	58.40	0.11		46	58.48	58.51	-0.03
96	10-11		47	15.5	19.5	15.50	0.03		47	15.5	19.4	15.45	0.11		47	15.53	15.56	-0.03
97	12		47	22.5	26.4	22.45	0.03		47	....	26.4	22.40	0.11		47	22.48	22 51	-0.03
98	9-10		47	59.7	63.7	59.70	0.03		47	59.6	63.8	59.70	0.11		47	59.73	59.81	-0.08
99	8-10		48	11.7	15.7	11.70	0.03		48	11.6	15.6	11.60	0.11		48	11.73	11.71	+0.02
100	12-13		48	43.5	47.3	43.40	0.03		48	43.2	47.3	43.25	0.10		48	43.43	43.35	+0.08
101	12		49	21.8	25.7	21.75	0.03		49	21.6	25.7	21.65	0.10		49	21.78	21.75	+0.03
102	12		49	46.2	50.1	46.15	0.03		49	46.0	50.0	46.00	0.10		49	46.18	46.10	+0.08
103	12		49	49.6	53.6	49.60	0.03		49	....	53.5	49.50	0.10		49	49.63	49.60	+0.03
104	12		49	55.0	59.1	55.05	0.03		49	55.3	59.1	55.20	0.10		49	55.08	55.30	-0.22
105	9-11		50	46.3	50.2	46.25	0.03		50	46.1	50.1	46.10	0.10		50	46.18	46.20	-0.02
106	8,9,10		50	55.8	60.0	55.90	0.03		50	55.8	59.8	55.80	0.10		50	55.93	55.90	+0.03
107	...		53	10.8	....	10.80	0.03		.....	.....	.....	.....			53	10.83	.....	.....
108	12-13		53	....	15.2	11.20	0.03		53	11.2	15.1	11.15	0.09		53	11.23	11.24	-0.01
109	12		54	30.3	34.0	30.15	0.03		54	30.1	34.1	30.10	0.09		54	30.18	30.19	-0.01
110	12		54	45.9	....	45.90	0.03		54	46.0	....	46.00	0.09		54	45.93	46.09	-0.16
111	12		54	49.5	53.5	49.50	0.03		54	49.5	53.7	49.60	0.09		54	49.53	49.69	-0.16
112	12		55	15.3	19.3	15.30	0.02		.....	.....	.....	.....			55	15.32	.....	.....
113	12		57	33.2	37.3	33.25	0.02		57	33.2	....	33.20	0.08		57	33.27	33.28	-0.01
114	12		57	....	40.8	36.80	0.02		57	36.8	40.7	36.75	0.08		57	36.82	36.83	-0.01
115	11-12		58	27.8	31.9	27.85	0.02		58	27.8	31.8	27.80	0.08		58	27.87	27.88	-0.01
116	12		58	30.8	34.8	30.80	0.02		58	30.6	34.7	30.65	0.08		58	30.82	30.73	+0.09
117	12-13		58	48.0	51.8	47.90	0.02		58	47.9	51.8	47.85	0.08		58	47.92	47.93	-0.01
118	12-13		58	56.1	60.1	56.10	0.02		58	56.1	59.8	55.95	0.08		58	56.12	56.03	+0.09
119	9-10		59	3.7	7.8	3.75	0.02	14	59	3.7	7.7	3.70	0.08		59	3.77	3.78	-0.01
120	12-13		59	23.2	27.0	23.10	0.02		.....	.....	.....	.....			59	23.12	.....	.....
121	12	14	59	44.8	48.6	44.70	0.02		.....	.....	.....	.....	14	59	44.72	.....	.....
122	11-12	15	0	21.9	25.9	21.90	0.02	15	0	21.8	25.6	21.70	0.08	15	0	21.92	21.78	+0.14
123	12		0	22.6	26.6	22.60	0.02		0	22.6	26.4	22.50	0.08		0	22.62	22.58	+0.04
124	11-12		2	12.6	16.7	12.65	0.02		2	12.5	16.5	12.50	0.07		2	12.67	12.57	+0.10
125	11-12		2	35.0	39.0	35.00	0.02		2	34.6	38.6	34.60	0.07		2	35.02	34.67	+0.35
126	12-13		.....	.....	.....	.....	.....		2	55.6	59.5	55.55	0.07		2	.....	55.62	.....
127	12		3	0.0	4.0	0.00	0.02		.....	63.8	59.80	0.07			3	0.02	59.87	+0.15
128	12		3	29.3	....	29.30	0.02		3	29.2	33.6	29.40	0.07		3	29.32	29.47	-0.15
129	9-10		3	33.9	38.1	34.00	0.02		3	34.1	38.0	34.05	0.07		3	34.02	34.12	-0.10
130	12		4	9.4	13.4	9.40	0.02		4	9.3	13.1	9.20	0.07		4	9.42	9.27	+0.15
131	11-12		4	26.0	30.0	26.00	0.02		4	25.9	29.8	25.85	0.07		4	26.02	25.92	+0.10
132	12		4	37.0	41.2	37.10	0.02		4	37.2	41.1	37.15	0.07		4	37.12	37.22	-0.10
133	12		4	41.8	46.0	41.90	0.02		4	42.0	45.8	41.90	0.07		4	41.92	41.97	-0.05
134	12-13		5	8.4	12.3	8.35	0.01		.....	.....	.....	.....			5	8.36	.....	.....
135	10	15	5	16.1	20.1	16.10	+0.01	15	5	16.2	20.1	16.15	+0.06	15	5	16.11	16.21	-0.10

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 124.	d.	Zone 125.	d.	Zone 124.	Zone 125.		
91	+ 2 43	+ 0.6	....	...	+ 0 42 43.6	....	...
92	9 34	0.2	....	...	0 49 34.2	....	...
93	7 20	0.3	+ 7 24	- 1.0	0 47 20.3	23.0	- 2.7	
94	....	...	6 19	1.0	0 46	18.0	...	
95	....	...	1 23	0.8	0 41	22.2	...	
96	10 8	0.1	10 7	1.1	0 50 8.1	5.9	+ 2.2	
97	2 42	0.5	2 42	0.8	0 52 42.5	41.2	+ 1.3	
98	0 36	0.6	0 38	0.7	0 40 36.6	37.3	- 0.7	
99	4 4	0.4	4 5	0.9	0 44 4.4	4.1	+ 0.3	
100	5 58	0.3	5 59	1.0	0 45 58.3	58.0	+ 0.3	
101	4 24	0.3	4 25	1.0	0 44 24.3	24.0	+ 0.3	
102	4 35	0.3	4 38	1.0	0 45 35.3	37.0	- 1.7	
103	6 0	0.2	6 1	1.0	0 46 0.2	0.0	+ 0.2	
104	5 24	0.2	5 27	1.0	0 45 24.2	26.0	- 1.8	
105	1 ..	...	6 25	1.1	0 46	23.9	...	
106	0 25	0.5	0 27	0.9	0 40 25.5	26.1	- 0.6	
107	0 ..	...	....	...	.....	....	...
108	0 28	+ 0.4	0 26	0.9	0 40 28.4	25.1	+ 3.3	
109	9 59	- 0.1	10 1	1.3	0 49 58.9	59.7	- 0.8	
110	6 31	0.0	6 31	1.2	0 46 31.0	29.8	+ 1.2	
111	7 37	0.0	7 38	1.2	0 47 37.0	36.8	+ 0.2	
112	3 59	+ 0.1	....	...	0 43 59.1	....	...	Bright meteor passed the field.
113	0 20	+ 0.3	0 21	1.1	0 40 20.3	19.9	+ 0.4	
114	7 28	- 0.1	7 29	1.3	0 47 27.9	27.7	+ 0.2	
115	1 15	+ 0.2	1 18	1.1	0 41 15.2	16.9	- 1.7	
116	10 0	- 0.3	10 1	1.5	0 49 59.7	59.5	+ 0.2	
117	4 11	0.0	4 14	1.2	0 44 11.0	12.8	- 1.8	
118	3 32	+ 0.1	3 31	1.2	0 43 32.1	29.8	+ 2.3	
119	4 10	0.0	4 12	1.2	0 44 10.0	10.8	- 0.8	
120	2 9	+ 0.1	....	...	0 42 9.1	....	...
121	9 31	- 0.3	9 28	1.5	0 49 30.7	26.5	+ 4.2	
122	5 45	0.1	5 46	1.3	0 45 44.9	44.7	+ 0.2	
123	6 1	- 0.1	6 1	1.4	0 45 60.9	59.6	+ 1.3	
124	0 30	+ 0.1	0 30	1.2	0 40 30.1	28.8	+ 1.3	
125	0 22	+ 0.1	0 22	1.3	0 40 22.1	20.7	+ 1.4	
126	....	...	8 49	1.5	0 48	47.5	...	
127	+ 3 20	- 0.1	3 20	1.3	0 43 19.9	18.7	+ 1.2	
128	- 0 1	+ 0.1	0 0	1.2	0 39 59.1	58.8	+ 0.3	
129	+ 0 15	+ 0.1	0 17	1.2	0 40 15.1	15.8	- 0.7	
130	0 50	0.0	0 51	1.3	0 40 50.0	49.7	+ 0.3	
131	9 29	- 0.4	9 30	1.6	0 49 28.6	28.4	+ 0.2	
132	5 10	0.2	5 11	1.5	0 45 9.8	9.5	+ 0.3	
133	5 35	0.2	5 38	1.5	0 45 34.8	36.5	- 1.7	
134	5 48	0.2	5 48	1.5	0 45 47.8	46.5	+ 1.3	
135	+10 11	- 0.5	+10 13	- 1.7	+ 0 50 10.5	11.3	- 0.8	

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. ⁺0 40 to ⁺0 50.

Number of the Star.	Magnitude.	ZONE 124.						ZONE 125.						MEAN RIGHT ASCENSION. 1859.0				Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 124.		Zone 125.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.		s.	
136	11-12	15	5	29.8	33.9	29.85	+0.01	15	5	29.9	33.8	29.85	+0.06	15	5	29.86	29.91	-0.05		
137	11-12		5	43.8	47.8	43.80	0.01		5	43.5	47.6	43.55	0.06		5	43.81	43.61	+0.20		
138	11-12		6	0.4	4.4	0.40	0.01		6	....	4.4	0.40	0.06		6	0.41	0.46	-0.05	
139	12		7	13.6	....	13.60	0.01		7	13.4	....	13.40	0.06		7	13.61	13.46	+0.15
140	12-13		7	17.2	20.9	17.05	0.01		7	17.1	21.2	17.15	0.06		7	17.06	17.21	-0.15		
141	11-12		7	....	24.9	20.90	0.01		7	....	24.9	20.90	0.06		7	20.91	20.96	-0.05
142	11		7	56.2	60.3	56.25	0.01		7	56.2	60.0	56.10	0.06		7	56.26	56.16	+0.10		
143	12		8	6.8	10.7	6.75	0.01		8	7.0	10.8	6.90	0.06		8	6.76	6.96	-0.20		
144	8-9		8	13.6	17.5	13.55	0.01		8	13.4	17.6	13.50	0.06		8	13.56	13.56	0.00		
145	11		8	....	21.7	17.70	0.01		8	....	21.7	17.70	0.06		8	17.71	17.76	-0.05
146	11		8	50.7	54.5	50.60	0.01		8	50.7	54.6	50.65	0.05		8	50.61	50.70	-0.09		
147	12-13		9	24.8	29.0	24.90	0.01		9	24.8	28.7	24.75	0.05		9	24.91	24.80	+0.11		
148	9-10		9	57.8	61.7	57.75	0.01		9	57.6	61.6	57.60	0.05		9	57.76	57.65	+0.11		
149	12		10	43.8	47.8	43.80	0.01		10	43.9	47.7	43.80	0.05		10	43.81	43.85	-0.04		
150	11-12		10	52.3	56.2	52.25	0.01		10	52.3	56.2	52.25	0.05		10	52.26	52.30	-0.04		
151	9,10,11		10	....	60.1	56.10	0.01		10	....	60.1	56.10	0.05		10	56.11	56.15	-0.04
152	11-12		11	2.3	6.5	2.40	0.01		11	....	6.4	2.40	0.05		11	2.41	2.45	-0.04	
153	12		11	32.0	35.9	31.95	0.01		.....	.....	.....	.....			11	31.96	.....	.....
154	12		11	38.4	42.4	38.40	0.01		11	....	42.5	38.50	0.05		11	38.41	38.55	-0.14	
155	12		11	48.9	52.7	48.80	0.01		.....	.....	.....	.....			11	48.81	.....	.....
156	9-10		12	13.8	17.8	13.80	0.01		12	14.0	17.8	13.90	0.05		12	13.81	13.95	-0.14		
157	11		13	3.6	7.7	3.65	0.01		13	3.7	7.6	3.65	0.04		13	3.66	3.69	-0.03		
158	11		13	6.0	9.9	5.95	0.01		13	6.2	....	6.20	0.04		13	5.96	6.24	-0.28	
159	10		13	12.9	16.8	12.85	0.01		13	12.7	16.8	12.75	0.04		13	12.86	12.79	+0.07		
160	11		13	14.9	19.0	14.95	0.01		13	14.8	18.7	14.75	0.04		13	14.96	14.79	+0.17		
161	12		14	4.8	8.9	4.85	0.01		14	4.8	8.8	4.80	0.04		14	4.86	4.84	+0.02		
162	12-13		14	50.8	54.8	50.80	+0.01		14	51.0	54.7	50.85	0.04		14	50.81	50.89	-0.08		
163	13		16	36.6	40.5	36.55	0.00		.....	.....	.....	.....			16	36.55	.....	.....
164	12-13		16	57.3	61.2	57.25	0.00		.....	.....	.....	.....			16	57.25	.....	.....
165	13		17	15.2	19.2	15.20	0.00		17	15.3	19.2	15.25	0.04		17	15.20	15.29	-0.09		
166	13		18	....	16.6	10.60	0.00		18	10.7	14.4	10.55	0.03		18	10.60	10.58	+0.02	
167	13		18	22.2	25.8	22.00	0.00		18	22.0	26.2	22.10	0.03		18	22.00	22.13	-0.13		
168	12		18	24.7	28.8	24.75	0.00		18	24.7	28.7	24.70	0.03		18	24.75	24.73	+0.02		
169	9-12		18	49.6	53.7	49.65	0.00		18	49.6	53.7	49.65	0.03		18	49.65	49.68	-0.03		
170	12-13		19	22.8	26.8	22.80	0.00		19	22.7	....	22.70	0.03		19	22.80	22.73	+0.07	
171	13		19	28.9	32.7	28.80	0.00		19	28.8	32.8	28.80	0.03		19	28.80	28.83	-0.03		
172	12		20	31.3	35.3	31.30	0.00		20	31.4	35.4	31.40	0.03		20	31.30	31.43	-0.13		
173	12		20	45.0	48.9	44.95	0.00		20	45.0	48.8	44.90	0.03		20	44.95	44.93	+0.02		
174	12		21	34.8	38.7	34.75	0.00		21	34.8	38.8	34.80	0.03		21	34.75	34.83	-0.08		
175	12		22	20.0	24.1	20.05	0.00		22	19.8	23.9	19.85	0.03		22	20.05	19.88	+0.17		
176	11		22	28.8	32.8	28.80	0.00		22	28.6	32.7	28.65	0.03		22	28.80	28.68	+0.12		
177	12		22	44.4	....	44.40	0.00		.....	.....	.....	.....			22	44.40	.....	.....
178	12-13		22	47.0	50.9	46.95	0.00		22	46.8	50.7	46.75	0.02		22	46.95	46.77	+0.18		
179	12-13		23	39.7	43.8	39.75	0.00		.....	.....	.....	.....			23	39.75	.....	.....
180	12-13	15	24	1.4	5.5	1.45	0.00		15	24	1.6	5.5	1.55	+0.02		15	24	1.45	1.57	-0.12

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 124.	d.	Zone 125.	d.	Zone 124.	Zone 125.		
136	+ 2 32	- 0.1	+ 2 32	- 1.4	+ 0 42 31.9	30.6	+ 1.3	
137	2 28	0.1	2 29	1.4	0 42 27.9	27.6	+ 0.3	
138	3 53	0.2	3 51	1.4	0 43 52.8	49.6	+ 3.2	
139	6 35	0.3	6 37	1.6	0 46 34.7	35.4	- 0.7	
140	1 9	0.1	....	...	0 41 8.9	....	...
141	1 11	0.1	1 16	1.4	0 41 10.9	14.6	- 3.7	
142	3 29	0.2	3 30	1.5	0 43 28.8	28.5	+ 0.3	
143	2 1	0.1	2 0	1.4	0 41 60.9	58.6	+ 2.3	
144	1 54	0.1	1 55	1.4	0 41 53.9	53.6	+ 0.3	
145	5 56	0.3	5 59	1.6	0 45 55.7	57.4	- 1.7	
146	9 5	0.5	9 8	1.7	0 49 4.5	6.3	- 1.8	
147	7 31	0.5	7 31	1.7	0 47 30.5	29.3	+ 1.2	
148	6 22	0.4	6 23	1.7	0 46 21.6	21.3	+ 0.3	
149	10 25	0.7	10 23	1.8	0 50 24.3	21.2	+ 3.1	
150	8 46	0.6	8 48	1.8	0 48 45.4	46.2	- 0.8	
151	0 31	0.2	0 33	1.4	0 40 30.8	31.6	- 0.8	
152	....	...	8 35	1.8	0 48	33.2	...	
153	3 2	0.3	3 10	1.6	0 43 1.7	8.4	- 6.7	
154	4 8	0.4	4 9	1.6	0 44 7.6	7.4	+ 0.2	
155	0 36	0.2	....	...	0 40 35.8	....	...
156	3 14	0.3	3 16	1.6	0 43 13.7	14.4	- 0.7	
157	6 19	0.5	6 20	1.7	0 46 18.5	18.3	+ 0.2	
158	3 7	0.4	2 9	1.6	0 43 6.6	7.4	- 0.8	
159	6 0	0.5	6 1	1.7	0 45 59.5	59.3	+ 0.2	
160	2 43	0.4	2 49	1.6	0 42 42.6	47.4	- 4.8	
161	....	...	10 12	1.9	0 50	10.1	...	
162	3 49	0.6	3 48	1.7	0 43 48.4	46.3	+ 2.1	
163	2 39	0.5	....	...	0 42 38.5	....	...
164	4 3	0.6	....	...	0 44 2.4	....	...
165	....	...	4 13	1.8	0 44	11.2	...	
166	....	...	7 18	1.9	0 47	16.1	...	
167	9 21	0.9	9 21	2.0	0 49 20.1	19.0	+ 1.1	
168	0 1	0.4	....	...	0 40 0.6	....	...
169	7 39	0.8	7 39	2.0	0 47 38.2	37.0	+ 1.2	
170	0 35	0.5	0 37	1.7	0 40 34.5	35.3	- 0.8	
171	2 28	0.6	2 21	1.8	0 42 27.4	19.2	+ 8.2	
172	6 46	0.9	6 47	2.0	0 46 45.1	45.0	+ 0.1	
173	3 0	0.7	3 0	1.8	0 42 59.3	58.2	+ 1.1	
174	6 39	0.9	6 40	2.0	0 46 38.1	38.0	+ 0.1	
175	0 37	0.6	0 39	1.8	0 40 36.4	37.2	- 0.8	
176	0 29	0.6	0 29	1.8	0 40 28.4	27.2	+ 1.2	
177	5 0	0.8	....	...	0 44 59.2	....	...
178	6 1	0.9	6 1	2.0	0 45 60.1	59.0	+ 1.1	
179	9 11	1.1	....	...	0 49 9.9	....	...
180	+10 13	- 1.1	+10 14	- 2.2	+ 0 50 11.9	11.8	+ 0.1	

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.

Dec. +0° 40' to 0° 50'.

Number of the Star.	Magnitude.	ZONE 124.					ZONE 125.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 124.	Zone 125.			
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
181	12	15 24 10.3	14.2	10.25	0.00	15 24 10.5	14.5	10.50	+0.02	15 24 10.25	10.52	-0.27		
182	12-13	24 48.6	52.6	48.60	0.00	24 48.7	52.7	48.70	0.02	24 48.60	48.72	-0.12		
183	12-13	24 56.7	60.4	56.55	0.00	24 56.6	60.3	56.45	0.02	24 56.55	56.47	+0.08		
184	12-13	25 40.3	44.4	40.35	0.00	25 40.2	44.1	40.15	0.01	25 40.35	40.14	+0.21		
185	12	26 8.6	12.5	8.55	0.00	26 8.3	12.3	8.30	0.01	26 8.55	8.31	+0.24		
186	12-13	26 37.3	41.3	37.30	0.00	26 37.3	41.2	37.25	0.01	26 37.30	37.26	+0.04		
187	11-12	26 57.4	61.6	57.50	0.00	26 57.4	61.4	57.40	0.01	26 57.50	57.41	+0.09		
188	12	28 9.5	13.5	9.50	0.00	28	13.3	9.30	0.01	28 9.50	9.31	+0.19		
189	9-10	28 15.3	19.3	15.30	0.00	28 15.1	19.3	15.20	+0.01	28 15.30	15.21	+0.09		
190	10	28 48.8	52.8	48.80	0.00	28 48.8	52.6	48.70	0.00	28 48.80	48.70	+0.10		
191	12-13	29 27.6	31.7	27.65	0.00	.....	.....	.....	.....	29 27.65	.....	.....
192	11-12	30 14.0	18.0	14.00	0.00	30 13.8	18.0	13.90	0.00	30 14.00	13.90	+0.10		
193	10-11	30 48.7	52.8	48.75	0.00	30 48.7	52.9	48.80	0.00	30 48.75	48.80	-0.05		
194	11-12	30 55.2	59.1	55.15	0.00	30 55.2	.....	55.20	0.00	30 55.15	55.20	-0.05	
195	11	31 4.1	8.3	4.20	0.00	31 4.2	8.3	4.25	0.00	31 4.20	4.25	-0.05		
196	12	31 21.2	25.1	21.15	0.00	31 21.2	25.0	21.10	0.00	31 21.15	21.10	+0.05		
197	11-12	31 47.0	50.8	46.90	0.00	31 46.9	51.1	47.00	0.00	31 46.90	47.00	-0.10		
198	12	31 49.1	52.8	48.95	0.00	31 49.0	.....	49.00	0.00	31 48.95	49.00	-0.05	
199	11-12	31	56.0	52.00	0.00	31	56.0	52.00	0.00	31 52.00	52.00	0.00		
200	10	32 2.6	6.4	2.50	0.00	.....	.....	.....	.....	32 2.50	.....	.....
201	12	32 24.1	28.1	24.10	0.00	32 24.1	28.1	24.10	0.00	32 24.10	24.10	0.00		
202	12	33 3.0	6.7	2.85	0.00	33 2.7	6.5	2.60	-0.01	33 2.85	2.59	+0.26		
203	12-13	33 7.9	11.9	7.90	0.00	33 7.9	12.0	7.95	0.01	33 7.90	7.94	-0.04		
204	12	34 28.4	32.3	28.35	0.00	34 28.2	32.2	28.20	0.01	34 28.35	28.19	+0.16		
205	12	37 2.8	6.7	2.75	-0.01	37 2.6	6.5	2.55	0.01	37 2.74	2.54	+0.20		
206	9-10	37 35.8	39.8	35.80	0.01	37 35.9	39.8	35.85	0.02	37 35.79	35.83	-0.04		
207	11-12	39 3.5	.....	3.50	0.01	39 3.6	7.5	3.55	0.02	39 3.50	3.53	-0.03	
208	11	39 7.0	11.0	7.00	0.01	39	10.9	6.90	0.02	39 6.99	6.88	+0.11		
209	9	.....	.....	.....	.....	39	22.5	18.50	0.02	39 18.48	.....	.....
210	..	39 20.0	24.0	20.00	0.01	.....	.....	.....	.....	39 19.99	.....	.....
211	..	.....	.....	.....	.....	39 28.6	32.3	28.45	0.02	39	28.43	.....	
212	10-11	39 57.0	61.2	57.10	0.01	.....	.....	.....	.....	39 57.09	.....	.....
213	12	40 26.4	30.1	26.25	0.01	40 26.3	30.2	26.25	0.02	40 26.24	26.23	+0.01		
214	9-10	40 53.6	57.7	53.65	0.01	40 53.5	57.7	53.60	0.02	40 53.64	53.58	+0.06		
215	12	41 4.4	8.4	4.40	0.01	41 4.5	8.4	4.45	0.02	41 4.39	4.43	-0.04		
216	12	41 15.0	19.2	15.10	0.01	41 15.0	.....	15.00	0.02	41 15.09	14.98	+0.11	
217	12	41 31.5	35.5	31.50	0.01	.....	.....	.....	.....	41 31.49	.....	.....
218	..	.....	.....	.....	0.01	41 57.8	61.9	57.85	0.03	41	57.82	.....	
219	..	.....	.....	.....	0.01	42 0.5	4.4	0.45	0.03	42	0.42	.....	
220	12-13	42 11.2	15.2	11.20	0.01	.....	.....	.....	.....	42 11.19	.....	.....
221	10	42 17.3	21.3	17.30	0.01	42 17.3	21.2	17.25	0.03	42 17.29	17.22	+0.07		
222	..	42 22.4	.....	22.40	0.01	.....	.....	.....	.....	42 22.39	.....	.....
223	..	42 ...	26.0	22.00	0.01	.....	.....	.....	.....	42 21.99	.....	.....
224	11-12	43 1.0	.....	1.00	0.01	43 1.0	.....	1.00	0.03	43 0.99	0.97	+0.02
225	9,10,12	15 43 4.8	8.9	4.85	-0.01	15 43 4.9	8.9	4.90	-0.03	15 43 4.84	4.87	-0.03		

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. +^o 40 to ^o 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 124.	d.	Zone 125.	d.	Zone 124.	Zone 125.		
181	+ 0 8	- 0.6	+ 0 13	- 1.8	+ 0 40 7.4	11.2	- 3.8	
182	....	...	6 35	2.1	0 46	32.9	...	
183	4 37	0.9	4 39	2.0	0 44 36.1	37.0	- 0.9	
184	8 33	1.1	8 34	2.2	0 48 31.9	31.8	+ 0.1	
185	8 5	1.1	8 8	2.1	0 48 3.9	5.9	- 2.0	
186	0 37	0.7	0 39	1.9	0 40 36.3	37.1	- 0.8	
187	5 12	1.0	5 14	2.1	0 45 11.0	11.9	- 0.9	
188	6 49	1.1	6 48	2.1	0 46 47.9	45.9	+ 2.0	
189	7 15	1.1	7 13	2.2	0 47 13.9	10.8	+ 3.1	
190	4 31	1.0	4 32	2.0	0 44 30.0	30.0	0.0	
191	6 41	1.1	....	...	0 46 39.9	....	...
192	6 37	1.1	6 38	2.2	0 46 35.9	35.8	+ 0.1	
193	7 10	1.2	7 11	2.2	0 47 8.8	8.8	0.0	
194	4 15	1.0	4 15	2.1	0 44 14.0	12.9	+ 1.1	
195	3 19	1.0	3 20	2.1	0 43 18.0	17.9	+ 0.1	
196	2 11	0.9	2 13	2.0	0 42 10.1	11.0	- 0.9	
197	3 19	1.0	3 20	2.1	0 43 18.0	17.9	+ 0.1	
198	3 29	1.0	3 30	2.1	0 43 28.0	27.9	+ 0.1	
199	2 49	1.0	2 51	2.1	0 42 48.0	48.9	- 0.9	
200	....	...	....	...	.....	....	...
201	8 22	1.3	8 21	2.3	0 48 20.7	18.7	+ 2.0	
202	1 55	1.0	1 53	2.1	0 41 54.0	50.9	+ 3.1	
203	....	...	1 10	2.4	0 41	7.6	...	
204	5 55	1.2	5 58	2.3	0 45 53.8	55.7	- 1.9	
205	....	...	0 37	2.1	0 40	34.9	...	
206	8 10	1.4	8 10	2.4	0 48 8.6	7.6	+ 1.0	
207	4 5	1.3	....	...	0 44 3.7	....	...
208	0 4	1.1	0 15	2.2	0 40 2.9	12.8	- 9.9	
209	....	...	5 1	2.4	0 44	58.6	...	
210	7 43	1.5	....	...	0 47 41.5	....	...
211	....	...	....	...	.....	....	...
212	1 28	1.2	1 29	2.3	0 41 26.8	26.7	+ 0.1	
213	5 16	1.4	5 18	2.4	0 45 14.6	15.6	- 1.0	
214	....	...	9 26	2.6	0 49	23.4	...	
215	6 19	1.4	6 20	2.5	0 46 17.6	17.5	+ 0.1	
216	7 23	1.5	7 30	2.5	0 47 21.5	27.5	- 6.0	
217	6 0	1.4	....	...	0 45 58.6	....	....
218	....	...	....	...	.....	....	....
219	....	...	....	...	.....	....	....
220	4 1	1.4	....	...	0 40 59.6	....	....
221	....	...	0 23	2.3	0 40	20.7	....
222	....	...	....	...	.....	....	....
223	....	...	....	...	.....	....	....
224	2 0	1.3	3 1	2.4	0 41 58.7	58.6	+ 0.1	
225	+ 4 4	- 1.4	+ 4 5	- 2.5	+ 0 44 2.6	2.5	+ 0.1	

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 124.				ZONE 125.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 124.	Zone 125.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
226	10-11	15 43 22.3	26.4	22.35	-0.01	15 43 22.3	26.3	22.30	-0.03	15 43 22.34	22.27	+0.07
227	10-11	44 20.0	23.9	19.95	0.01	44 20.0	24.1	20.05	0.03	44 19.94	20.02	-0.08
228	12	44	46.3	42.30	0.01	44 42.5	....	42.50	0.03	44 42.29	42.47	-0.18
229	12	44 52.0	56.0	52.00	0.01	44 52.1	55.9	52.00	0.03	44 51.99	51.97	+0.02
230	10-11	44 57.0	61.0	57.00	0.01	44 57.0	61.0	57.00	0.03	44 56.99	56.97	+0.02
231	11	45 8.6	12.7	8.65	0.02	45 8.6	12.6	8.60	0.04	45 8.63	8.56	+0.07
232	11-12	45 22.9	26.9	22.90	0.02	45 23.0	26.8	22.90	0.04	45 22.88	22.86	+0.02
233	12	45 29.1	33.1	29.10	0.02	45 29.1	33.1	29.10	0.04	45 29.08	29.06	+0.02
234	9,10,11	46 25.0	29.2	25.10	0.02	46 25.1	29.4	25.25	0.04	46 25.08	25.21	-0.13
235	7,8,10,11	46 28.6	32.5	28.55	0.02	46 28.4	32.6	28.50	0.04	46 28.53	28.46	+0.07
236	11	47 15.7	19.6	15.65	0.02	47 15.6	19.7	15.65	0.04	47 15.63	15.61	+0.02
237	11-12	47 32.0	35.9	31.95	0.02	47 32.0	35.8	31.90	0.04	47 31.93	31.86	+0.07
238	11-12	48 40.8	44.9	40.85	0.02	48 40.8	44.7	40.75	0.05	48 40.83	40.70	+0.13
239	12	.....	.....	.....	.....	48 41.2	45.0	41.10	0.05	48	41.05	.....
240	12	49 18.3	22.1	18.20	0.02	49 18.1	22.3	18.20	0.05	49 18.18	18.15	+0.03
241	12	50 49.7	53.7	49.70	0.02	50 49.6	53.6	49.60	0.05	50 49.68	49.55	+0.13
242	..	51 26.8	30.7	26.75	0.02	.....	.....	.....	.....	51 26.73	.....	.....
243	11-12	52 7.3	....	7.30	0.02	52 7.3	11.3	7.30	0.05	52 7.28	7.25	+0.03
244	12	52 11.2	15.3	11.25	0.02	52	15.2	11.20	0.05	52 11.23	11.15	+0.08
245	12-13	52 56.1	60.1	56.10	0.02	52 56.0	60.1	56.05	0.06	52 56.08	55.99	+0.09
246	12	53 19.2	23.2	19.20	0.02	53 19.0	23.0	19.00	0.06	53 19.18	18.94	+0.24
247	8-9	53 32.6	36.7	32.65	0.02	53 32.7	36.7	32.70	0.06	53 32.63	32.64	-0.01
248	12	54 11.2	15.0	11.10	0.02	54 11.1	15.0	11.05	0.06	54 11.08	10.99	+0.09
249	12	54 39.4	43.6	39.50	0.02	54 39.3	43.4	39.35	0.06	54 39.48	39.29	+0.19
250	11-12	54 54.9	59.1	55.00	0.02	54 55.0	59.1	55.05	0.06	54 54.98	54.99	-0.01
251	12	55 26.9	31.0	26.95	0.03	55 26.9	30.9	26.90	0.06	55 26.92	26.84	+0.08
252	12	55 35.3	39.5	35.40	0.03	55 35.5	39.4	35.45	0.06	55 35.37	35.39	-0.02
253	12	55 58.8	62.8	58.80	0.03	55 58.9	62.6	58.75	0.06	55 58.77	58.69	+0.08
254	12	56	7.2	3.20	0.03	56	7.3	3.30	0.06	56 3.17	3.24	-0.07
255	12	56 45.5	49.7	45.60	0.03	56 45.4	49.4	45.40	0.06	56 45.57	45.34	+0.23
256	8,9,11	57 5.7	9.7	5.70	0.03	57 5.8	9.6	5.70	0.06	57 5.67	5.64	+0.03
257	12-13	58 15.9	19.8	15.85	0.03	58 15.8	19.8	15.80	0.07	58 15.82	15.73	+0.09
258	12	59 1.0	5.0	1.00	0.03	59 0.9	5.0	0.95	0.07	59 0.97	0.88	+0.09
259	11-12	59 39.9	43.9	39.90	0.03	59 40.0	44.0	40.00	0.07	59 39.87	39.93	-0.06
260	11-12	15 59 49.4	53.4	49.40	0.03	15 59 49.3	53.3	49.30	0.07	15 59 49.37	49.23	+0.14
261	10-11	16 0 11.8	15.6	11.70	0.03	16 0 11.6	15.6	11.60	0.07	16 0 11.67	11.53	+0.14
262	12	0 14.5	18.4	14.45	0.03	0 14.5	18.3	14.40	0.07	0 14.42	14.33	+0.09
263	10	0 29.9	33.9	29.90	0.03	0 29.9	33.9	29.90	0.07	0 29.87	29.83	+0.04
264	11	1 4.7	8.7	4.70	0.03	1 4.6	8.6	4.60	0.07	1 4.67	4.53	+0.14
265	11	1 23.1	27.1	23.10	0.03	1 23.2	27.3	23.25	0.07	1 23.07	23.18	-0.11
266	12	1 29.5	33.4	29.45	0.03	1	33.4	29.40	0.07	1 29.42	29.33	+0.09
267	..	1 36.1	40.3	36.20	0.03	1 35.9	40.2	36.05	0.07	1 36.17	35.98	+0.19
268	11	2 11.0	15.0	11.00	0.03	2 11.1	15.1	11.10	0.08	2 10.97	11.02	-0.05
269	10-11	3 0.8	4.8	0.80	0.03	3 0.7	4.6	0.65	0.08	3 0.77	0.57	+0.20
270	12	16 3 21.2	25.0	21.10	-0.03	16 3 21.5	25.1	21.30	-0.08	16 3 21.07	21.22	-0.15

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.

Dec. +0° 46' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 124.	d.	Zone 125.	d.	Zone 124.	Zone 125.		
226	+ 7 7	- 1.6	+ 7 6	- 2.6	+ 0 47 5.4	3.4	+ 2.0	
227	9 41	1.7	9 41	2.7	0 49 39.3	38.3	+ 1.0	
228	6 59	1.6	7 0	2.6	0 46 57.4	57.4	0.0	
229	8 28	1.7	8 29	2.7	0 48 26.3	26.3	0.0	
230	1 1	...	1 49	2.4	0 41	46.6	...	
231	1 38	1.3	1 38	2.4	0 41 36.7	35.6	+ 1.1	
232	2 0	1.4	2 0	2.4	0 41 58.6	57.6	+ 1.0	
233	6 ..	...	6 34	2.6	0 46	31.4	...	
234	1 28	1.3	1 30	2.5	0 41 26.7	27.5	- 0.8	
235	3 11	1.5	3 13	2.6	0 43 9.5	10.4	- 0.9	
236	6 48	1.7	6 49	2.7	0 46 46.3	46.3	0.0	
237	10 23	1.8	10 28	2.8	0 50 21.2	25.2	- 4.0	
238	0 53	1.4	0 57	2.5	0 40 51.6	54.5	- 2.9	
239	1 10	1.4	1 12	2.5	0 41 8.6	9.5	- 0.9	
240	0 41	1.4	0 41	2.5	0 40 39.6	38.5	+ 1.1	
241	1 21	1.5	1 22	2.6	0 41 19.5	19.4	+ 0.1	
242	....	...	....	...	.....	....	...
243	1 39	1.6	1 40	2.6	0 41 37.4	37.4	0.0	
244	2 39	1.6	2 40	2.7	0 42 37.4	37.3	+ 0.1	
245	3 31	1.7	3 34	2.7	0 43 29.3	31.3	- 2.0	
246	9 47	2.0	9 47	3.0	0 49 45.0	44.0	+ 1.0	Meteor passed through the field.
247	6 38	1.8	5 30	2.9	0 45	27.1	...	
248	1 0	1.6	1 3	2.7	0 40 58.4	60.3	- 1.9	
249	1 38	1.7	1 41	2.7	0 41 36.3	38.3	- 2.0	
250	1 17	1.7	1 19	2.7	0 41 15.3	16.3	- 1.0	
251	6 1	1.9	6 3	2.9	0 45 59.1	60.1	- 1.0	
252	3 15	1.8	3 20	2.8	0 43 13.2	17.2	- 4.0	
253	1 51	1.7	1 53	2.8	0 41 49.3	50.2	- 0.9	
254	6 47	2.0	6 49	3.0	0 46 45.0	46.0	- 1.0	
255	....	...	9 46	3.1	0 49	42.9	...	
256	8 33	2.1	8 35	3.1	0 48 30.9	31.9	- 1.0	
257	7 38	2.1	7 40	3.0	0 47 35.9	37.0	- 1.1	
258	6 31	2.1	6 33	3.0	0 46 28.9	30.0	- 1.1	
259	1 2	1.8	1 4	2.8	0 41 0.2	1.2	- 1.0	
260	2 12	1.9	2 14	2.8	0 42 10.1	11.2	- 1.1	
261	0 5	1.8	0 8	2.7	0 40 3.2	5.3	- 2.1	
262	10 30	2.3	10 30	3.2	0 50 27.7	26.8	+ 0.9	
263	....	...	1 5	2.8	0 41 ...	2.2	...	
264	6 8	2.1	6 9	3.0	0 46 5.9	6.0	- 0.1	
265	10 29	2.4	10 28	3.2	0 50 26.6	24.8	+ 1.8	
266	7 10	2.2	....	...	0 47 7.8	...	...
267	5 5	2.1	5 6	3.0	0 45 2.9	3.0	- 0.1	
268	6 2	2.2	6 3	3.0	0 45 59.8	60.0	- 0.2	
269	7 4	2.2	7 5	3.0	0 47 1.8	2.0	- 0.2	
270	+ 4 27	- 2.1	+ 4 30	- 3.0	+ 0 44 24.9	27.0	- 2.1	

ZONE OBSERVATIONS.

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 124.						ZONE 125.						MEAN RIGHT ASCENSION 1859.0		Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 124.	Zone 125.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.		s.	s.
271	12	16	3	45.4	49.3	45.35	-0.03							16	3	45.32	.....	....
272	12		3	52.9	56.9	52.90	0.03	16	3	52.8	56.8	52.80	-0.08		3	52.87	52.72	+0.15
273	12-13		4	9.3	13.2	9.25	0.03		4	9.1	12.9	9.00	0.08		4	9.22	8.92	+0.30
274	12		4	12.5	....	12.50	0.03		.....	.....	.....	....		4	12.47	.....	....
275	12		4	25.2	29.2	25.20	0.03		4	25.1	29.1	25.10	0.08		4	25.17	25.02	+0.15
276	11		4	49.5	53.2	49.35	0.03		4	49.3	53.3	49.30	0.08		4	49.32	49.22	+0.10
277	12		5	43.7	47.7	43.70	0.03		5	43.8	47.6	43.70	0.09		5	43.67	43.61	+0.06
278	12		6	6.0	10.0	6.00	-0.03		6	6.0	9.9	5.95	0.09		6	5.97	5.86	+0.11
279	9	16	.....	.....	.....	....		16	8	19.8	23.8	19.80	-0.09	16	8	.....	19.71	....

A.R. ^{h.}13 ^{m.}55 to ^{h.}16 ^{m.}8.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 124.	d.	Zone 125.	d.	Zone 124.	Zone 125.		
271	+10' 4"	- 2.4	' ... "	" ...	+ 0 50' 1.6	....	" ...
272	6 28	2.3	+ 6 28	- 3.2	0 46 25.7	24.8	+ 0.9	
273	8 5	2.3	8 3	3.3	0 47 62.7	59.7	+ 3.0	
274	7 36	2.3	....	...	0 47 33.7	....	...
275	5 16	2.2	5 18	3.1	0 45 13.8	14.9	- 1.1	
276	....	...	10 51	3.3	.....	....	...
277	10 24	2.5	10 23	3.4	0 50 21.5	49.6	+ 1.9	
278	+ 6 41	- 2.3	6 40	3.2	0 46 38.7	36.8	+ 1.9	
279	....	...	+ 6 32	- 3.3	+ 0 46	28.7	...	

ZONE OBSERVATIONS.

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. [°]+0 [']50 to [°]1 [']0.

Number of the Star.	Magnitude.	ZONE 126.					ZONE 127.					MEAN RIGHT ASCENSION. 1859.0		Difference.
												Zone 126.	Zone 127.	
		First Wire.	Second Wire.	Mean red. to 2d Wire.	z.		First Wire.	Second Wire.	Mean red. to 2d Wire.	z.				
1	9	^{h.} 13 ^{m.} 54 ^{s.} 50.3	^{s.} 54.3	^{s.} 50.30	+0.56		^{h.} 13 ^{m.} 54 ^{s.} 50.1	^{s.} 54.0	^{s.} 50.05	+0.78		^{h.} 13 ^{m.} 54 ^{s.} 50.86	^{s.} 50.83	+0.03
2	..	.....	.....	.....	.....		55 23.4	27.0	23.20	0.78		55	23.98	.....
3	10-11	56 6.9	10.7	6.80	0.55		56 6.8	10.7	6.75	0.78		56 7.35	7.53	-0.18
4	11-12	57 13.4	17.0	13.20	0.55		57 13.2	17.1	13.15	0.77		57 13.75	13.92	-0.17
5	11	57	19.2	15.20	0.55		57 15.3	19.2	15.25	0.77		57 15.75	16.02	-0.27
6	11-12	57 21.0	25.0	21.00	0.55		57 20.8	24.9	20.85	0.77		57 21.55	21.62	-0.07
7	11	58 49.5	53.5	49.50	0.54		58 49.3	53.0	49.15	0.77		58 50.04	49.92	+0.12
8	11	13 59 41.1	44.8	40.95	0.54		13 59 41.0	45.0	41.00	0.77		13 59 41.49	41.77	-0.28
9	19	14 0 22.4	26.5	22.45	0.54		14 0 22.5	26.3	22.40	0.76		14 0 22.99	23.16	-0.17
10	8-9	1 2.7	6.7	2.70	0.54		1 2.7	6.5	2.60	0.76		1 3.24	3.36	-0.12
11	12-13	1 4.3	8.2	4.25	0.54		1 4.1	8.0	4.05	0.76		1 4.79	4.81	-0.02
12	9-10	2 50.4	54.2	50.30	0.53		2 50.1	54.0	50.05	0.76		2 50.83	50.81	+0.02
13	12	3 7.0	11.0	7.00	0.53		3 6.9	10.9	6.90	0.76		3 7.53	7.66	-0.13
14	10	3 46.6	50.5	46.55	0.53		3 46.2	50.2	46.20	0.75		3 47.08	46.95	+0.13
15	10-11	4 13.9	17.9	13.90	0.53		4 13.5	17.3	13.40	0.75		4 14.43	14.15	+0.28
16	9	5 38.5	42.4	38.45	0.52		5 38.3	41.9	38.10	0.75		5 38.97	38.85	+0.12
17	12	5	49.5	45.50	0.52		5 45.7	....	45.70	0.75		5 46.02	46.45	-0.43
18	12	5	53.4	49.40	0.52		5 48.9	53.0	48.95	0.75		5 49.92	49.70	+0.22
19	11-12	6 21.0	24.7	20.85	0.52		6 20.5	24.5	20.50	0.75		6 21.37	21.25	+0.12
20	12	6 23.6	27.8	23.70	0.52		6 23.5	27.4	23.45	0.75		6 24.22	24.20	+0.02
21	10	6 30.2	34.1	30.15	0.52		6 29.9	33.8	29.85	0.75		6 30.67	30.60	+0.07
22	11	6	55.1	51.10	0.52		6 50.9	54.9	50.90	0.75		6 51.62	51.65	-0.03
23	10	7 37.9	41.8	37.85	0.52		7 37.5	41.7	37.60	0.74		7 38.37	38.34	+0.03
24	10	8 49.6	53.4	49.50	0.51		8 49.3	....	49.30	0.74		8 50.01	50.04	-0.03
25	12	8 50.5	54.4	50.45	0.51		8 50.3	54.3	50.30	0.74		8 50.96	51.04	-0.08
26	12	.....	.....	.....	.....		9	15.9	11.90	0.74		9	12.64	.....
27	12	9 53.9	57.9	53.90	0.51		9 53.6	57.7	53.65	0.73		9 54.41	54.38	+0.03
28	11-12	10 19.8	23.8	19.80	0.51		10 19.3	23.6	19.45	0.73		10 20.31	20.18	+0.13
29	11-12	10	27.7	23.70	0.51		10	27.4	23.40	0.73		10 24.21	24.13	+0.08
30	12	11 6.7	10.8	6.75	0.51		11 6.4	10.6	6.50	0.73		11 7.26	7.23	+0.03
31	12-13	11 51.5	55.5	51.50	0.50		11 51.2	55.2	51.20	0.73		11 52.00	51.93	+0.07
32	11-12	12 13.8	17.9	13.85	0.50		12 13.6	17.8	13.70	0.72		12 14.35	14.42	-0.07
33	12	13 2.7	6.6	2.65	0.50		13 2.5	6.4	2.45	0.72		13 3.15	3.17	-0.02
34	7-8	13 17.0	21.0	17.00	0.50		13 16.7	20.6	16.65	0.72		13 17.50	17.37	+0.13
35	10-11	13 25.8	29.8	25.80	0.50		13 25.6	29.6	25.60	0.72		13 26.30	26.32	-0.02
36	11-12	14 40.9	44.9	40.90	0.50		14	44.6	40.60	0.71		14 41.40	41.31	+0.09
37	11-12	14 47.8	51.7	47.75	0.50		14 47.4	51.5	47.45	0.71		14 48.25	48.16	+0.09
38	12	15 37.1	41.0	37.05	0.49		15 36.8	40.6	36.70	0.72		15 37.54	37.42	+0.12
39	12	17 3.8	7.7	3.75	0.49		17 3.7	7.5	3.60	0.71		17 4.24	4.31	-0.07
40	11-12	17 17.6	21.6	17.60	0.49		17 17.4	21.4	17.40	0.71		17 18.09	18.11	-0.02
41	12-13	19 8.1	11.8	7.95	0.48		19 7.8	11.7	7.75	0.70		19 8.43	8.45	-0.02
42	9-10	19 20.5	24.6	20.55	0.48		19 20.3	24.2	20.25	0.70		19 21.03	20.95	+0.08
43	10-11	20 31.0	34.8	30.90	0.48		20 30.8	34.7	30.75	0.69		20 31.38	31.44	-0.06
44	11	21 9.2	13.2	9.20	0.48		21 9.0	13.0	9.00	0.69		21 9.68	9.69	-0.01
45	12	14 21 41.9	45.9	41.90	+0.47		14 21 41.7	45.8	41.75	+0.69		14 21 42.37	42.44	-0.07

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. +^o50 to ⁱ0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 126.	d.	Zone 127.	d.	Zone 126.	Zone 127.		
1	+ 4 59	+ 1.9	+ 4 59	+ 1.1	+ 0 55 0.9	0.1	+ 0.8	
2	....	...	3 9	1.2	0 53	10.2	...	
3	9 28	1.8	9 30	0.8	0 59 29.8	30.8	- 1.0	
4	5 20	1.9	5 20	1.1	0 55 21.9	21.1	+ 0.8	
5	3 40	1.9	3 41	1.2	0 53 41.9	42.2	- 0.3	
6	4 32	1.9	4 33	1.1	0 54 33.9	34.1	- 0.2	
7	5 35	1.8	5 36	1.0	0 55 36.8	37.0	- 0.2	
8	10 51	1.7	10 52	0.7	1 0 52.7	52.7	- 0.0	
9	1 49	1.9	1 49	1.3	0 51 50.9	50.3	+ 0.6	
10	2 50	1.8	2 51	1.2	0 52 51.8	52.2	- 0.4	
11	2 48	1.8	2 47	1.2	0 52 49.8	48.2	+ 1.6	
12	6 27	1.7	6 28	0.9	0 56 28.7	28.9	- 0.2	
13	6 33	1.7	6 36	0.9	0 56 34.7	36.9	- 2.2	
14	4 54	1.8	4 55	1.0	0 54 55.8	56.0	- 0.2	
15	7 24	1.7	7 24	0.8	0 57 25.7	24.8	+ 0.9	
16	10 25	1.6	10 27	0.6	1 0 26.1	27.6	- 1.5	
17	9 31	1.6	9 31	0.7	0 59 32.6	31.7	+ 0.9	
18	9 43	1.6	9 45	0.6	0 59 44.6	45.6	- 1.0	
19	10 48	1.6	....	...	1 0 49.6	...	...
20	9 10	1.7	....	...	0 59 11.7	...	...
21	6 2	1.7	6 2	0.9	0 56 3.7	2.9	+ 0.8	
22	7 13	1.7	7 15	0.8	0 57 14.7	15.8	- 1.1	
23	4 49	1.7	4 49	1.0	0 54 50.7	50.0	+ 0.7	
24	1 25	1.8	1 25	1.2	0 51 26.8	26.2	+ 0.6	
25	5 48	1.7	5 48	0.9	0 55 49.7	48.9	+ 0.8	
26	....	...	4 35	1.0	0 54	36.0	...	
27	4 5	1.7	4 6	1.0	0 54 6.7	7.0	- 0.3	
28	0 47	1.8	0 47	1.3	0 50 48.8	48.3	+ 0.5	
29	0 2	1.8	0 1	1.3	0 50 3.8	2.3	+ 1.5	
30	4 43	1.7	4 45	0.9	0 54 44.7	45.9	- 1.2	
31	6 57	1.6	6 57	0.8	0 56 58.6	57.8	+ 0.8	
32	1 11	1.7	1 13	1.2	0 51 12.7	14.2	- 1.5	
33	+ 5 28	1.6	5 29	0.9	0 55 29.6	29.9	- 0.3	
34	- 0 3	1.7	0 0	1.2	0 49 58.7	61.2	- 2.5	
35	+ 2 30	1.7	2 30	1.1	0 52 31.7	31.1	+ 0.6	
36	2 40	1.7	2 41	1.0	0 52 41.7	42.0	- 0.3	
37	1 20	1.7	1 20	1.1	0 51 21.7	21.1	+ 0.6	
38	10 30	1.5	10 29	0.5	1 0 31.5	29.5	+ 2.0	
39	4 58	1.6	4 59	0.8	0 54 59.6	59.8	- 0.2	
40	4 11	1.6	4 12	0.9	0 54 12.6	12.9	- 0.3	
41	5 0	1.5	5 0	0.8	0 55 1.5	0.8	+ 0.7	
42	5 18	1.5	5 19	0.8	0 55 19.5	19.8	- 0.3	
43	4 41	1.5	4 43	0.8	0 54 42.5	43.8	- 1.3	
44	6 29	1.5	6 29	0.7	0 56 30.5	29.7	+ 0.8	
45	+ 5 35	+ 1.5	+ 5 35	+ 0.7	+ 0 55 36.5	35.7	+ 0.8	

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 126.						ZONE 127.						MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.		Second Wire.	Mean red. to 2d Wire.		k.	First Wire.		Second Wire.	Mean red. to 2d Wire.		k.	Zone 126.		Zone 127.		
		h.	m. s.	s.	s.	s.		h.	m. s.	s.	s.	s.		h.	m. s.	s.	s.	
1	9	13	54 50.3	54.3	50.30	+0.56	13	54 50.1	54.0	50.05	+0.78	13	54 50.86	50.83	+0.03			
2	..	.....	.....	.....	.....	.....	55	23.4	27.0	23.20	0.78	55	.....	23.98	.....		
3	10-11	56	6.9	10.7	6.80	0.55	56	6.8	10.7	6.75	0.78	56	7.35	7.53	-0.18			
4	11-12	57	13.4	17.0	13.20	0.55	57	13.2	17.1	13.15	0.77	57	13.75	13.92	-0.17			
5	11	57	....	19.2	15.20	0.55	57	15.3	19.2	15.25	0.77	57	15.75	16.02	-0.27		
6	11-12	57	21.0	25.0	21.00	0.55	57	20.8	24.9	20.85	0.77	57	21.55	21.62	-0.07			
7	11	58	49.5	53.5	49.50	0.54	58	49.3	53.0	49.15	0.77	58	50.04	49.92	+0.12			
8	11	13	59 41.1	44.8	40.95	0.54	13	59 41.0	45.0	41.00	0.77	13	59 41.49	41.77	-0.28			
9	19	14	0 22.4	26.5	22.45	0.54	14	0 22.5	26.3	22.40	0.76	14	0 22.99	23.16	-0.17			
10	8-9	1	2.7	6.7	2.70	0.54	1	2.7	6.5	2.60	0.76	1	3.24	3.36	-0.12			
11	12-13	1	4.3	8.2	4.25	0.54	1	4.1	8.0	4.05	0.76	1	4.79	4.81	-0.02			
12	9-10	2	50.4	54.2	50.30	0.53	2	50.1	54.0	50.05	0.76	2	50.83	50.81	+0.02			
13	12	3	7.0	11.0	7.00	0.53	3	6.9	10.9	6.90	0.76	3	7.53	7.66	-0.13			
14	10	3	46.6	50.5	46.55	0.53	3	46.2	50.2	46.20	0.75	3	47.08	46.95	+0.13			
15	10-11	4	13.9	17.9	13.90	0.53	4	13.5	17.3	13.40	0.75	4	14.43	14.15	+0.28			
16	9	5	38.5	42.4	38.45	0.52	5	38.3	41.9	38.10	0.75	5	38.97	38.85	+0.12			
17	12	5	....	49.5	45.50	0.52	5	45.7	....	45.70	0.75	5	46.02	46.45	-0.43	
18	12	5	....	53.4	49.40	0.52	5	48.9	53.0	48.95	0.75	5	49.92	49.70	+0.22		
19	11-12	6	21.0	24.7	20.85	0.52	6	20.5	24.5	20.50	0.75	6	21.37	21.25	+0.12			
20	12	6	23.6	27.8	23.70	0.52	6	23.5	27.4	23.45	0.75	6	24.22	24.20	+0.02			
21	10	6	30.2	34.1	30.15	0.52	6	29.9	33.8	29.85	0.75	6	30.67	30.60	+0.07			
22	11	6	....	55.1	51.10	0.52	6	50.9	54.9	50.90	0.75	6	51.62	51.65	-0.03		
23	10	7	37.9	41.8	37.85	0.52	7	37.5	41.7	37.60	0.74	7	38.37	38.34	+0.03			
24	10	8	49.6	53.4	49.50	0.51	8	49.3	....	49.30	0.74	8	50.01	50.04	-0.03		
25	12	8	50.5	54.4	50.45	0.51	8	50.3	54.3	50.30	0.74	8	50.96	51.04	-0.08			
26	12	.....	.....	.....	.....	.....	9	....	15.9	11.90	0.74	9	.....	12.64	.....		
27	12	9	53.9	57.9	53.90	0.51	9	53.6	57.7	53.65	0.73	9	54.41	54.38	+0.03			
28	11-12	10	19.8	23.8	19.80	0.51	10	19.3	23.6	19.45	0.73	10	20.31	20.18	+0.13			
29	11-12	10	....	27.7	23.70	0.51	10	....	27.4	23.40	0.73	10	24.21	24.13	+0.08	
30	12	11	6.7	10.8	6.75	0.51	11	6.4	10.6	6.50	0.73	11	7.26	7.23	+0.03			
31	12-13	11	51.5	55.5	51.50	0.50	11	51.2	55.2	51.20	0.73	11	52.00	51.93	+0.07			
32	11-12	12	13.8	17.9	13.85	0.50	12	13.6	17.8	13.70	0.72	12	14.35	14.42	-0.07			
33	12	13	2.7	6.6	2.65	0.50	13	2.5	6.4	2.45	0.72	13	3.15	3.17	-0.02			
34	7-8	13	17.0	21.0	17.00	0.50	13	16.7	20.6	16.65	0.72	13	17.50	17.37	+0.13			
35	10-11	13	25.8	29.8	25.80	0.50	13	25.6	29.6	25.60	0.72	13	26.30	26.32	-0.02			
36	11-12	14	40.9	44.9	40.90	0.50	14	....	44.6	40.60	0.71	14	41.40	41.37	-0.03		
37	11-12	14	47.8	51.7	47.75	0.50	14	47.4	51.5	47.45	0.71	14	48.37	48.34	+0.03			
38	12	15	37.1	41.0	37.05	0.49	15	36.8	40.6	36.70	0.72	15	37.53	37.50	+0.03			
39	12	17	3.8	7.7	3.75	0.49	17	3.7	7.5	3.60	0.71	17	3.87	3.84	+0.03			
40	11-12	17	17.6	21.6	17.60	0.49	17	17.4	21.4	17.40	0.71	17	17.50	17.47	+0.03			
41	12-13	19	8.1	11.8	7.95	0.48	19	7.8	11.7	7.75	0.70	19	8.01	7.98	+0.03			
42	9-10	19	20.5	24.6	20.55	0.48	19	20.3	24.2	20.25	0.70	19	20.31	20.28	+0.03			
43	10-11	20	31.0	34.8	30.90	0.48	20	30.8	34.7	30.75	0.69	20	30.96	30.93	+0.03			
44	11	21	9.2	13.2	9.20	0.48	21	9.0	13.0	9.00	0.69	21	9.01	8.98	+0.03			
45	12	14	21 41.9	45.9	41.90	+0.47	14	21 41.7	45.8	41.75	+0.69	14	21 41.9	41.87	+0.03			

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 126.				ZONE 127.				MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 126.	Zone 127.			
46	11	h. m. s. 14 22 3.0	s. 7.2	s. 3.10	+0.47	h. m. s. 14 22 2.8	s. 6.8	s. 2.80	+0.69	h. m. s. 14 22 3.57	s. 3.49	+0.08		
47	9-10	22 22.2	26.1	22.15	0.47	22 22.0	26.0	22.00	0.69	22 22.62	22.69	-0.07		
48	10	22 26.5	30.5	26.50	0.47	22	30.3	26.30	0.69	22 26.97	26.99	-0.02		
49	12-13	23 27.8	31.6	27.70	0.47	23 27.6	31.3	27.45	0.68	23 28.17	28.13	+0.04		
50	10	23 57.1	61.0	57.05	0.47	23 57.0	60.9	56.95	0.69	23 57.52	57.64	-0.12		
51	10-11	24 4.8	8.7	4.75	0.47	24 4.7	8.4	4.55	0.69	24 5.22	5.24	-0.02		
52	11-12	25 33.6	37.7	33.65	0.46	25	37.3	33.30	0.68	25 34.11	33.98	+0.13		
53	11-12	25 45.7	49.5	45.60	0.46	25 45.4	49.3	45.35	0.68	25 46.06	46.03	+0.03		
54	12	25 52.0	55.9	51.95	0.46	25	55.7	51.70	0.68	25 52.41	52.38	+0.03		
55	11-12	27 2.1	6.1	2.10	0.46	27 1.9	6.0	1.95	0.67	27 2.56	2.62	-0.06		
56	11-12	28 7.0	11.2	7.10	0.46	28 7.0	. . . .	7.00	0.67	28 7.56	7.67	-0.11	
57	11-12	28 15.3	. . . .	15.30	0.46	28	18.9	14.90	0.67	28 15.76	15.57	+0.19	
58	9	28 34.9	39.1	35.00	0.45	28 34.9	38.9	34.90	0.67	28 35.45	35.57	-0.12		
59	8-9	28 46.7	50.7	46.70	0.45	28 46.5	50.5	46.50	0.67	28 47.15	47.17	-0.02		
60	9-10	29 8.1	11.9	8.00	0.45	29 7.8	11.8	7.80	0.67	29 8.45	8.47	-0.02		
61	12-13	29 36.3	40.3	36.30	0.45	29 36.2	40.2	36.20	0.66	29 36.75	36.86	-0.11		
62	12-13	31 32.7	36.7	32.70	0.45	31 32.6	36.6	32.60	0.66	31 33.15	33.26	-0.11		
63	12	32 1.4	5.2	1.30	0.44	32 1.1	5.0	1.05	0.66	32 1.74	1.71	+0.03		
64	10-11	32 43.9	47.8	43.85	0.44	32 43.7	47.6	43.65	0.65	32 44.29	44.30	-0.01		
65	11	33 19.3	23.3	19.30	0.44	33 19.0	23.1	19.05	0.66	33 19.74	19.71	+0.03		
66	11-12	33 49.5	53.7	49.60	0.44	33 49.4	53.4	49.40	0.65	33 50.04	50.05	-0.01		
67	12	34 16.5	20.4	16.45	0.44	34 16.2	20.4	16.30	0.65	34 16.89	16.95	-0.06		
68	9	34 33.1	37.2	33.15	0.44	34 33.0	36.8	32.90	0.66	34 33.59	33.56	+0.03		
69	11	36 58.6	62.3	58.45	0.43	36 58.3	62.4	58.35	0.64	36 58.88	58.99	-0.11		
70	12-13	37 4.2	8.0	4.10	0.43	37 4.0	7.8	3.90	0.65	37 4.53	4.55	-0.02		
71	12-13	37 17.5	21.4	17.45	0.43	37 17.2	21.0	17.10	0.64	37 17.88	17.74	+0.14		
72	11	. . . . .	. . . .	. . . .	. . . .	37 26.0	30.1	26.05	0.65	37	26.70	
73	12	. . . . .	. . . .	. . . .	. . . .	37 36.2	. . . .	36.20	0.64	37	36.84	
74	12	38 28.6	32.4	28.50	0.42	38 28.4	32.5	28.45	0.64	38 28.92	29.09	-0.17		
75	12	38 45.5	49.4	45.45	0.42	38 45.5	49.5	45.50	0.64	38 45.87	46.14	-0.27		
76	11	38 59.9	63.7	59.80	0.42	38 59.8	63.7	59.75	0.64	39 0.22	0.39	-0.17		
77	9-10	39 46.9	51.0	46.95	0.42	39 46.7	50.8	46.75	0.63	39 47.37	47.38	-0.01		
78	8, 9, 10	40 0.8	4.8	0.70	0.42	40 0.8	4.6	0.70	0.63	40 1.12	1.33	-0.21		
79	12	40 34.4	38.5	34.45	0.42	40 34.3	38.3	34.30	0.64	40 34.87	34.94	-0.07		
80	8, 9, 10	40 44.9	48.5	44.70	0.42	40	48.7	44.70	0.64	40 45.12	45.34	-0.22		
81	12-13	41 29.5	33.4	29.45	0.42	41 29.2	33.0	29.10	0.63	41 29.87	29.73	+0.14		
82	11-12	41 58.9	62.7	58.80	0.41	41 58.5	. . . .	58.50	0.63	41 59.21	59.13	+0.08	
83	11-12	42 0.8	4.9	0.85	0.41	42 0.7	4.3	0.50	0.63	42 1.26	1.13	+0.13		
84	10	42 10.8	14.7	10.75	0.41	42 10.5	14.5	10.50	0.63	42 11.16	11.13	+0.03		
85	11	42 15.9	19.9	15.90	0.41	42 15.5	19.4	15.45	0.63	42 16.31	16.08	+0.23		
86	11	42 30.0	34.1	30.05	0.41	42 29.9	33.9	29.90	0.63	42 30.46	30.53	-0.07		
87	11-12	43 28.0	32.2	28.10	0.41	43 28.0	31.9	27.95	0.63	43 28.51	28.58	-0.07		
88	12-13	43 49.8	. . . .	49.80	0.41	43 49.5	53.5	49.50	0.62	43 50.21	50.12	+0.09	
89	11	45 10.2	13.9	10.15	0.40	45 9.7	13.7	9.70	0.62	45 10.55	10.32	+0.23		
90	12	14 45 27.5	31.4	27.45	+0.40	14 45 27.1	31.0	27.05	+0.62	14 45 27.85	27.67	+0.18		

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3Dec. +^o50 to ^o10.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 126.	d.	Zone 127.	d.	Zone 126.	Zone 127.		
46	+ 6 18	+ 1.4	....	...	+ 0 56 19.4	....	...
47	3 48	1.5	+ 3 48	+ 0.8	0 53 49.5	48.8	+ 0.7	
48	4 8	1.5	4 8	0.8	0 54 9.5	8.8	+ 0.7	
49	4 47	1.4	4 48	0.7	0 54 48.4	48.7	- 0.3	
50	9 43	1.3	9 44	0.4	0 59 44.3	44.4	- 0.1	
51	10 30	1.3	10 29	0.3	1 0 31.3	29.3	+ 2.0	
52	2 48	1.4	2 49	0.9	0 52 49.4	49.9	- 0.5	
53	9 37	1.3	9 25	0.4	0 59 38.3	25.4	+12.9	
54	4 2	1.4	4 2	0.8	0 54 3.4	2.8	+ 0.6	
55	1 50	1.4	1 51	0.9	0 51 51.4	51.9	- 0.5	
56	1 2	1.4	1 0	0.9	0 51 3.4	0.9	+ 2.5	
57	9 20	1.2	9 20	0.4	0 59 21.2	20.4	+ 0.8	
58	1 40	1.4	1 39	0.9	0 51 41.4	39.9	+ 1.5	
59	0 9	1.4	0 10	1.0	0 50 9.4	11.0	- 3.4	
60	9 24	1.2	9 25	0.4	0 59 25.2	25.4	- 0.2	
61	3 31	1.3	3 31	0.8	0 53 32.3	31.8	+ 0.5	
62	2 37	1.3	2 39	0.8	0 52 38.3	39.8	- 1.5	
63	7 9	1.2	7 8	0.8	0 57 10.2	8.8	+ 1.4	
64	3 10	1.3	3 12	0.7	0 53 11.3	12.7	- 1.4	
65	8 52	1.2	8 52	0.4	0 58 53.2	52.4	+ 0.8	
66	0 40	1.3	0 40	0.9	0 50 41.3	40.9	+ 0.4	
67	4 0	1.3	4 0	0.7	0 54 1.3	0.7	+ 0.6	
68	9 52	1.2	9 52	0.3	0 59 53.2	52.3	+ 0.9	Star appeared elongated ? Strong wind.
69	3 44	1.3	3 44	0.7	0 53 45.3	44.7	+ 0.6	
70	6 18	1.2	6 20	0.5	0 56 19.2	20.5	- 1.3	
71	2 2	1.3	2 4	0.8	0 52 3.3	4.8	- 1.5	
72	8 13	1.2	8 14	0.3	0 58 14.2	14.3	- 0.1	
73	....	...	6 52	0.4	0 56	52.4	...	
74	8 11	1.2	8 12	0.3	0 58 12.2	12.3	- 0.1	
75	3 24	1.2	3 25	0.7	0 53 25.2	25.7	- 0.5	
76	5 58	1.2	5 59	0.5	0 55 59.2	59.5	- 0.3	
77	1 55	1.3	1 56	0.8	0 51 56.3	56.8	- 0.5	
78	5 18	1.2	5 17	0.5	0 55 19.2	17.5	+ 1.7	
79	7 23	1.2	7 24	0.4	0 57 24.2	24.4	- 0.2	
80	....	...	11 12	0.1	1 1	12.1	...	
81	4 31	1.2	4 31	0.6	0 54 32.2	31.6	+ 0.6	
82	1 31	1.2	1 33	0.8	0 51 32.2	33.8	- 1.6	
83	1 52	1.2	1 53	0.7	0 51 53.2	53.7	- 0.5	
84	9 13	1.1	9 13	0.2	0 59 14.1	13.2	+ 0.9	
85	5 58	1.1	5 58	0.4	0 55 59.1	58.4	+ 0.7	
86	6 58	1.1	6 58	0.4	0 56 59.1	58.4	+ 0.7	
87	5 39	1.1	5 39	0.4	0 55 40.1	39.4	+ 0.7	
88	5 30	1.1	5 29	0.4	0 55 31.1	29.4	+ 1.7	
89	6 9	1.1	6 9	0.4	0 56 10.1	9.4	+ 0.7	
90	+ 6 40	+ 1.1	+ 6 40	+ 0.3	+ 0 56 41.1	40.3	+ 0.8	

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. ^o50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 126.					ZONE 127.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 126.	Zone 127.			
91	11	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
92	10-12	14 46 19.0	23.1	19.05	+0.40	14 46 18.7	22.8	18.75	+0.62	14 46 19.45	19.37	+0.08		
93	12	46 26.8	30.6	26.70	0.40	46 26.7	30.5	26.60	0.62	46 27.10	27.22	-0.12		
94	12	46 51.6	55.7	51.65	0.40	46 51.8	55.7	51.75	0.62	46 52.05	52.37	-0.32		
95	9-10	46 53.3	57.3	53.30	0.40	.....	.....	.....	.....	46 53.70	.....	.....
		47 15.0	19.2	15.00	0.40	47 15.0	18.9	14.95	0.61	47 15.50	15.56	-0.06		
96	10-11	47 49.8	53.6	49.70	0.40	47 49.6	53.6	49.60	0.61	47 50.10	50.21	-0.11		
97	11-12	48 45.1	49.1	45.10	0.39	48 44.9	48.8	44.85	0.61	48 45.49	45.46	+0.03		
98	12	49 2.6	6.6	2.60	0.39	49 2.7	.....	2.70	0.61	49 2.99	3.31	-0.32	
99	12-13	49 51.3	55.1	51.20	0.39	49 51.0	55.0	51.00	0.61	49 51.59	51.61	-0.02		
100	11	50	49.7	45.70	0.39	50 45.6	49.5	45.55	0.61	50 46.09	46.16	-0.07		
101	10	51 14.4	18.4	14.40	0.39	51 14.2	18.2	14.20	0.60	51 14.79	14.80	-0.01		
102	10	51 42.3	46.4	42.35	0.38	51 42.1	46.1	42.10	0.59	51 42.83	42.69	+0.14		
103	11	52 33.6	37.5	33.55	0.38	52 33.4	37.4	33.40	0.59	52 33.93	33.99	-0.06		
104	12-13	.....	.....	.....	.....	52 59.5	63.5	59.50	0.59	53	0.09	.....	
105	12-13	53 56.0	59.9	55.95	0.38	53 56.0	59.8	55.90	0.59	53 56.33	56.49	-0.16		
106	12	54 6.4	10.3	6.35	0.38	.....	.....	.....	.....	54 6.73	.....	.....
107	10-11	54 27.1	30.9	27.00	0.38	54 26.9	30.7	26.80	0.59	54 27.38	27.39	-0.01		
108	11-12	54 29.8	33.8	29.80	0.38	.....	.....	.....	.....	54 30.18	.....	.....
109	9-10	55 32.9	36.7	32.80	0.37	55 32.6	36.5	32.55	0.59	55 33.17	33.14	+0.03		
110	11-12	56 13.6	17.6	13.60	0.37	56 13.5	17.3	13.40	0.59	56 13.97	13.99	-0.02		
111	12	.....	.....	.....	.....	56 29.8	33.7	29.75	0.58	56	30.33	.....	
112	11	58 14.0	18.0	14.00	0.37	58 13.6	17.6	13.60	0.57	58 14.37	14.17	+0.20		
113	12	58 23.7	27.7	23.70	0.37	.....	.....	.....	.....	58 24.07	.....	.....
114	10	58 25.2	29.1	25.15	0.37	58 25.0	29.0	25.00	0.58	58 25.52	25.58	-0.06		
115	11	58	34.6	30.60	0.37	.....	.....	.....	.....	58 30.97	.....	.....
116	11	59 12.5	16.6	12.55	0.37	59	16.5	12.50	0.57	59 12.92	13.07	-0.15		
117	11-12	14 59 42.0	46.0	42.00	0.37	14 59 41.8	45.8	41.80	0.56	14 59 42.37	42.36	+0.01		
118	12-13	15 1 13.6	17.3	13.45	0.36	.....	.....	.....	.....	15 1 13.81	.....	.....
119	12	1 26.4	30.6	26.50	0.36	.....	.....	.....	.....	1 26.86	.....	.....
120	10	2 8.3	12.4	8.35	0.35	15 2	12.0	8.00	0.56	2 8.70	8.56	+0.14		
121	..	2 37.4	41.3	37.35	0.35	.....	.....	.....	.....	2 37.70	.....	.....
122	11	4 5.0	8.9	4.95	0.35	4 4.6	8.7	4.65	0.56	4 5.30	5.21	+0.09		
123	12	4 24.0	27.8	23.90	0.35	4 23.8	27.8	23.80	0.56	4 24.25	24.36	-0.11		
124	12	4 29.0	33.0	29.00	0.35	4 28.9	32.8	28.85	0.55	4 29.35	29.40	-0.05		
125	10-11	4 47.4	51.5	47.45	0.35	4 47.4	51.3	47.35	0.55	4 47.80	47.90	-0.10		
126	8-10	5 6.5	10.4	6.45	0.34	5 6.2	10.0	6.10	0.55	5 6.79	6.65	+0.14		
127	12	5 8.8	12.9	8.85	0.34	5 ....	.....	.....	.....	5 9.19	.....	.....
128	11	5 13.9	17.9	13.90	0.34	5 13.5	17.7	13.60	0.55	5 14.24	14.15	+0.09		
129	10-11	6 12.9	16.8	12.85	0.34	6 12.7	16.7	12.70	0.55	6 13.19	13.25	-0.06		
130	8	7 9.1	13.0	9.05	0.34	7 8.9	12.8	8.85	0.54	7 9.39	9.39	0.00		
131	13	.....	.....	.....	.....	7 46.3	50.3	46.30	0.54	7	46.84	.....	
132	5-6	15 8 37.9	41.9	37.90	+0.33	8 37.9	41.7	37.80	0.54	8 38.23	38.34	-0.11		
133	12-13	.....	.....	.....	.....	9 27.3	31.3	27.30	0.54	9	27.84	.....	
134	12	.....	.....	.....	.....	10 20.6	24.4	20.50	0.53	10	21.03	.....	
135	11	.....	.....	.....	.....	15 10 43.6	47.5	43.55	+0.53	15 10	44.08	.....	

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. $+0^{\circ} 50'$ to $+1^{\circ} 0'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 126.	d.	Zone 127.	d.	Zone 126.	Zone 127.		
91	+ 7 36	+ 1.0	+ 7 37	+ 0.2	+ 0 57 37.0	37.2	- 0.2	
92	9 53	1.0	9 53	0.1	0 59 54.0	53.1	+ 0.9	
93	7 8	1.0	7 6	0.3	0 57 9.0	6.3	+ 2.7	
94	5 18	1.0	....	...	0 55 19.0	....	...
95	0 3	1.1	.0 2	0.7	0 50 4.1	2.7	+ 1.4	
96	3 49	1.1	3 49	0.5	0 53 50.1	49.5	+ 0.6	
97	8 9	1.0	8 9	0.2	0 58 10.0	9.2	+ 0.8	
98	2 50	1.1	2 49	0.6	0 52 51.1	49.6	+ 1.5	
99	3 20	1.0	3 21	0.5	0 53 21.0	21.5	- 0.5	
100	....	...	7 35	0.5	0 57 ....	....	...
101	3 53	1.0	3 53	0.4	0 53 54.0	53.4	+ 0.6	
102	1 14	1.0	1 14	0.6	0 51 15.0	14.6	+ 0.4	
103	2 15	1.0	2 15	0.5	0 52 16.0	15.5	+ 0.5	
104	....	...	4 26	0.4	0 54	26.4	...	
105	4 42	0.9	4 45	+ 0.4	0 54 42.9	45.4	- 2.5	
106	10 0	0.8	....	...	1 0 0.8	....	...
107	+ 9 47	0.8	9 47	0.0	0 59 47.8	47.0	+ 0.8	
108	- 0 3	1.0	....	...	0 49 58.0	....	...
109	+10 32	0.8	10 32	- 0.1	1 0 32.8	31.9	+ 0.9	
110	....	...	9 44	0.0	0 59	44.0	...	
111	....	...	2 18	+ 0.5	0 52	18.5	...	
112	1 50	0.9	1 49	+ 0.5	0 51 50.9	49.5	+ 1.4	
113	9 18	0.7	....	...	0 59 18.7	....	...
114	+ 9 15	0.7	9 16	0.0	0 59 15.7	16.0	- 0.3	
115	- 0 5	0.9	....	...	0 49 55.9	....	...
116	+10 10	0.7	10 8	- 0.1	1 0 10.7	7.9	+ 2.8	
117	0 50	0.9	0 50	+ 0.6	0 50 50.9	50.6	+ 0.3	
118	5 20	0.8	....	...	0 55 20.8	....	...
119	3 16	0.8	....	...	0 53 16.8	....	...
120	11 0	0.7	11 0	- 0.2	1 0 60.7	59.8	+ 0.9	
121	10 40	0.7	....	...	1 0 40.7	....	...	Nebulous star. h. 1908. Companion, 30" distant.
122	7 35	0.7	7 36	0.0	0 57 35.7	36.0	- 0.3	
123	8 30	0.7	8 30	0.0	0 58 30.7	30.0	+ 0.7	
124	6 8	0.7	6 10	+ 0.1	0 56 8.7	10.1	- 1.4	
125	0 59	+ 0.8	0 59	+ 0.5	0 50 59.8	59.5	+ 0.3	
126	9 43	- 0.7	9 43	- 0.1	0 59 43.7	42.9	+ 0.8	
127	7 8	+ 0.7	....	...	0 57 8.7	....	...
128	5 31	0.7	5 33	+ 0.2	0 55 31.7	33.2	- 1.5	
129	7 5	0.7	7 5	0.0	0 57 5.7	5.0	+ 0.7	
130	3 51	0.8	3 49	0.3	0 53 51.8	49.3	+ 2.5	
131	....	...	5 15	0.2	0 55	15.2	...	
132	+ 3 44	+ 0.7	3 42	0.3	0 53 44.7	42.3	+ 2.4	
133	....	...	4 4	0.2	0 54	4.2	...	
134	....	...	3 44	0.3	0 53	44.3	...	
135	....	...	+ 0 20	+ 0.5	+ 0 50	20.5	...	

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. +⁰50 to ¹0.

Number of the Star.	Magnitude.	ZONE 126.					ZONE 127.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire	z.	First Wire.		Second Wire.	Mean red. to 1st Wire	z.	Zone 126.		Zone 127.	
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	
136	12	.....	.....	.....	.....		15 11 38.6	42.7	38.65	+0.53		15 11	39.18	.....
137	12	.....	.....	.....	.....		12 0.4	4.2	0.30	0.53		12	0.83	.....
138	11-12	15 12 28.0	31.8	27.90	+0.32		12 27.8	31.8	27.80	0.53		12 28.22	28.33	-0.11	
139	11	12 30.3	34.1	30.20	0.32		12 30.0	33.8	29.90	0.53		12 30.52	30.43	+0.09	
140	11-12	12 57.7	61.8	57.75	0.32		12 57.7	61.8	57.75	0.52		12 58.07	58.27	-0.20	
141	12-13	13 9.6	13.9	9.75	0.32		.....	.....	.....	.....		13 10.07	.....	.....
142	11	13 14.8	18.7	14.75	0.32		13 14.7	18.6	14.65	0.52		13 15.07	15.17	-0.10	
143	11	13 46.1	50.2	46.15	0.32		13 46.0	50.0	46.00	0.52		13 46.47	46.52	-0.05	
144	11-12	14 4.5	8.5	4.50	0.32		14 4.6	8.6	4.60	0.52		14 4.82	5.12	-0.30	
145	11	14 5.6	9.4	5.50	0.32		.....	.....	.....	.....		14 5.82	.....	.....
146	11-12	14 15.9	19.8	15.85	0.32		.....	.....	.....	.....		14 16.17	.....	.....
147	12	14 45.1	49.1	45.10	0.32		14 44.7	48.7	44.70	0.52		14 45.42	.....	.....
148	8	15 50.0	54.0	50.00	0.31		15 49.9	54.	49.95	0.52		15 50.31	50.47	-0.16	
149	11-12	16 57.1	61.0	57.05	0.31		16 57.0	60.9	56.95	0.51		16 57.36	57.46	-0.10	
150	12	17 10.6	14.4	10.50	0.31		.....	.....	.....	.....		17 10.81	.....	.....
151	11	17 50.6	54.4	50.50	0.31		17 50.2	54.0	50.10	0.52		17 50.81	50.62	+0.19	
152	11-12	18 38.7	42.7	38.70	0.30		18 38.4	42.5	38.45	0.51		18 39.00	38.96	+0.04	
153	12	18 54.3	58.2	54.25	0.30		18 54.1	58.1	54.10	0.51		18 54.55	54.61	-0.06	
154	12	18 56.5	60.4	56.45	0.30		18 56.3	60.5	56.40	0.51		18 56.75	56.91	-0.16	
155	10	19 9.3	13.2	9.25	0.30		19 9.0	13.0	9.00	0.51		19 9.55	9.51	+0.04	
156	12	20 3.9	7.9	3.90	0.30		20 3.8	7.8	3.80	0.50		20 4.20	4.30	-0.10	
157	12-13	20 5.3	9.3	5.30	0.30		20 5.1	9.2	5.15	0.50		20 5.60	5.65	-0.05	
158	12	20 34.4	38.5	34.45	0.30		20 34.5	38.1	34.25	0.51		20 34.75	34.76	-0.01	
159	..	21 23.3	27.3	23.30	0.30		21 23.0	27.1	23.05	0.50		21 23.60	23.55	+0.05	
160	11	21	34.1	30.10	0.30		21 29.9	33.9	29.90	0.50		21 30.40	30.40	0.00	
161	11	22 12.2	16.3	12.25	0.29		22 12.3	16.1	12.20	0.50		22 12.54	12.70	-0.16	
162	12	22	13.0	9.00	0.29		.....	.....	.....	.....		22 9.29	.....	.....
163	12	22 39.1	42.9	39.00	0.29		22 38.8	42.8	38.80	0.50		22 39.29	39.30	-0.01	
164	11	23 22.2	26.2	22.20	0.29		23 22.0	25.8	21.90	0.50		23 22.49	22.40	+0.09	
165	13	23 41.2	45.3	41.25	0.29		.....	.....	.....	.....		23 41.54	.....	.....
166	11	24 1.3	5.2	1.25	0.29		24 1.1	5.0	1.05	0.49		24 1.54	1.54	0.00	
167	11-12	24 16.8	20.5	16.65	0.29		24 16.4	20.4	16.40	0.49		24 16.94	16.89	+0.05	
168	11-12	24 44.7	48.7	44.70	0.29		24 44.4	48.5	44.45	0.49		24 44.99	44.94	+0.05	
169	12	25 34.5	38.4	34.45	0.28		25 34.2	38.1	34.15	0.49		25 34.73	34.64	+0.09	
170	12	25	48.0	44.00	0.28		.....	.....	.....	.....		25 44.28	.....	.....
171	12	.....	.....	.....	.....		25 45.3	.....	45.30	0.49		25	45.79	.....
172	12	26 15.5	19.6	15.55	0.28		26 15.4	19.4	15.40	0.48		26 15.83	15.88	-0.05	
173	12	26 45.1	49.2	45.15	0.28		26 45.0	49.0	45.00	0.48		26 45.43	45.48	-0.05	
174	12-13	26 51.5	55.7	51.60	0.28		26 51.4	55.5	51.45	0.48		26 51.88	51.93	-0.05	
175	11-12	27 25.8	29.8	25.80	0.28		27 25.7	29.7	25.70	0.49		27 26.08	26.19	-0.11	
176	12	27 52.8	56.8	52.80	0.28		27 52.6	56.8	52.70	0.48		27 53.08	53.18	-0.10	
177	12	28	8.5	4.50	0.28		.....	.....	.....	.....		28 4.78	.....	.....
178	12	28 28.4	32.3	28.35	0.27		28 28.1	32.2	28.15	0.48		28 28.62	28.63	-0.01	
179	12	29 30.4	34.3	30.35	0.27		29 30.1	34.1	30.10	0.48		29 30.62	30.58	+0.04	
180	11-12	15 30 1.2	5.3	1.25	+0.27		15 30 1.0	5.0	1.00	+0.48		15 30 1.52	1.48	+0.04	

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 126.	d.	Zone 127.	d.	Zone 126.	Zone 127.		
136	' "	"	+ 6 27	0.0	+ 0 56	27.0	"	
137	....	...	3 56	+ 0.3	0 53	56.3	...	
138	+ 5 14	+ 0.6	5 14	+ 0.1	0 55 14.6	14.1	+ 0.5	
139	8 3	0.6	8 3	- 0.1	0 58 3.6	2.9	+ 0.7	
140	0 41	0.7	0 40	+ 0.4	0 50 41.7	40.4	+ 1.3	
141	3 5	0.7	....	...	0 53 5.7	....	...
142	4 3	0.6	4 6	0.2	0 54 3.6	6.2	- 2.6	
143	4 39	0.6	4 39	0.1	0 54 39.6	39.1	+ 0.5	
144	0 9	0.7	0 9	+ 0.5	0 50 9.7	9.5	+ 0.2	
145	10 20	0.5	....	...	1 0 20.5	....	...
146	7 0	0.1	....	...	....	....	...
147	8 58	0.5	8 58	- 0.2	0 58 58.5	57.8	+ 0.7	
148	8 13	0.6	8 13	- 0.1	0 58 13.6	12.9	+ 0.7	
149	0 7	0.7	0 8	+ 0.4	0 50 7.7	7.6	+ 0.1	
150	2 50	0.6	....	...	0 52 50.6	....	...
151	9 53	0.4	9 53	- 0.3	0 59 53.4	52.7	+ 0.7	
152	9 20	0.4	9 20	0.3	0 59 20.4	19.7	+ 0.7	
153	9 52	0.4	9 53	0.3	0 59 52.4	52.7	- 0.3	
154	8 43	0.4	8 43	0.2	0 58 43.4	42.8	+ 0.6	
155	8 10	0.5	8 10	- 0.1	0 58 10.5	9.9	+ 0.6	
156	4 32	0.5	4 33	+ 0.1	0 54 32.5	33.1	- 0.6	
157	5 45	0.5	5 43	0.0	0 55 45.5	43.0	+ 2.5	
158	8 50	0.4	8 50	- 0.2	0 58 50.4	49.8	+ 0.6	
159	....	...	....	...	....	....	...
160	5 10	0.5	5 9	0.0	0 55 10.5	9.0	+ 1.5	
161	10 40	0.3	10 38	0.3	1 0 40.3	37.7	+ 2.6	
162	5 0	0.5	5 5	0.0	0 55 0.5	5.0	- 4.5	
163	4 33	0.5	....	...	0 54 33.5	....	...
164	6 5	0.4	6 5	- 0.1	0 56 5.4	4.9	+ 0.5	
165	8 20	0.4	....	...	0 58 20.4	....	...
166	0 10	0.5	0 10	+ 0.3	0 50 10.5	10.3	+ 0.2	
167	7 1	0.4	7 1	- 0.2	0 57 1.4	0.8	+ 0.6	
168	4 15	0.4	4 15	0.0	0 54 15.4	15.0	+ 0.4	
169	6 30	0.4	6 30	0.2	0 56 30.4	29.8	+ 0.6	
170	1 41	0.5	....	...	0 51 41.5	....	...
171	....	...	6 1	- 0.1	0 56	0.9	...	
172	3 15	0.4	3 15	0.0	0 53 15.4	15.0	+ 0.4	
173	1 55	0.4	1 54	+ 0.1	0 51 55.4	54.1	+ 1.3	
174	2 39	0.4	....	...	0 52 39.4	....	...
175	7 45	0.3	7 44	- 0.3	0 57 45.3	43.7	+ 1.6	
176	0 34	0.4	0 33	+ 0.2	0 50 34.4	33.2	+ 1.2	
177	4 9	0.4	....	...	0 54 9.4	....	...
178	1 4	0.4	1 5	+ 0.2	0 51 4.4	5.2	- 0.8	
179	10 30	0.2	10 30	- 0.5	1 0 30.2	29.5	+ 0.7	
180	+ 7 21	+ 0.3	+ 7 22	- 0.3	+ 0 57 21.3	21.7	- 0.4	

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. +^o50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 126.					ZONE 127.					MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 126.		Zone 127.		
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	
181	11-12	15 30	1.2	5.3	1.25	+0.27	15 30	1.0	4.0	1.00	+0.48	15 30	1.52	1.48	+0.04	
182	11	30	28.3	32.1	28.20	0.27	30	28.0	32.1	28.05	0.47	30	28.47	28.52	-0.05	
183	12	30	52.7	56.6	52.65	0.27	30	52.4	56.7	52.55	0.47	30	52.92	53.02	-0.10	
184	12	31	7.0	11.1	7.05	0.27	31	6.9	10.8	6.85	0.47	31	7.32	7.32	0.00	
185	..	31	39.1	42.9	39.00	0.27	.....	.....	.....	.....	.....	31	39.27	.....	.....
186	13	.....	.....	.....	.....	.....	31	42.9	47.2	43.05	0.47	31	.....	43.52	.....
187	10	31	59.2	63.1	59.15	0.26	31	58.9	62.8	58.85	0.47	31	59.41	59.32	+0.09	
188	12	32	25.6	29.6	25.60	0.26	32	25.4	29.4	25.40	0.46	32	25.86	25.86	0.00	
189	11	33	39.5	43.3	39.40	0.26	33	39.2	43.1	39.15	0.47	33	39.66	39.62	+0.04	
190	12	33	.....	54.1	50.10	0.26	.....	.....	.....	.....	.....	33	50.36	.....	.....
191	7-8	34	49.5	53.4	49.45	0.26	34	49.4	53.1	49.25	0.46	34	49.71	49.70	0.00	
192	12	35	24.1	28.0	24.05	0.25	35	24.0	27.8	23.90	0.45	35	24.30	24.35	-0.05	
193	12-13	36	0.3	3.9	0.10	0.25	.....	.....	.....	.....	.....	36	0.35	.....	.....
194	11	36	19.0	22.9	18.95	0.25	36	19.0	22.7	18.85	0.45	36	19.20	19.30	-0.10	
195	11	38	4.7	8.7	4.70	0.25	38	4.6	8.5	4.55	0.44	38	4.95	4.95	-0.04	
196	12	38	32.5	36.3	32.40	0.24	38	32.4	36.0	32.20	0.45	38	32.64	32.65	-0.01	
197	12	38	52.0	55.8	51.90	0.24	38	51.5	55.8	51.65	0.44	38	52.14	52.09	+0.05	
198	12	40	11.2	15.0	11.10	0.24	40	10.9	14.9	10.90	0.44	40	11.34	11.34	0.00	
199	12	40	32.9	36.9	32.90	0.24	40	32.6	36.8	32.70	0.44	40	33.14	33.14	0.00	
200	12	40	47.2	51.2	47.20	0.24	40	47.0	50.8	46.90	0.44	40	47.44	47.34	+0.10	
201	12	41	45.4	.....	45.40	0.23	41	45.0	49.0	45.00	0.43	41	45.63	45.43	+0.20
202	12-13	41	49.3	53.4	49.35	0.23	41	.....	53.1	49.10	0.43	41	49.58	49.53	+0.05
203	11	42	10.9	14.9	10.90	0.23	42	10.8	14.5	10.65	0.42	42	11.13	11.07	+0.06	
204	12	42	47.9	52.0	47.95	0.23	42	47.6	51.8	47.70	0.43	42	48.18	48.13	+0.05	
205	12	43	7.5	11.6	7.55	0.23	43	7.2	11.6	7.40	0.43	43	7.78	7.83	-0.05	
206	12-13	44	7.8	11.7	7.75	0.23	44	.....	11.4	7.40	0.42	44	7.98	7.82	+0.16
207	12	44	17.4	21.3	17.35	0.23	44	17.2	21.3	17.25	0.42	44	17.58	17.67	-0.09	
208	11,12,13	46	37.8	41.8	37.80	0.22	46	37.6	41.7	37.65	0.41	46	38.02	38.06	-0.04	
209	11-12	47	30.9	34.9	30.90	0.22	47	30.7	34.7	30.70	0.41	47	31.12	31.11	+0.01	
210	11	47	41.4	45.4	41.40	0.22	47	41.1	45.3	41.20	0.42	47	41.62	41.62	0.00	
211	11	47	54.7	58.7	54.70	0.22	47	54.8	58.7	54.75	0.41	47	54.92	55.16	-0.24	
212	11	48	26.8	.....	26.80	0.21	48	26.4	30.4	26.40	0.41	48	27.01	26.81	+0.20
213	10	48	.....	57.8	53.80	0.21	48	53.5	57.5	53.50	0.41	48	54.01	53.91	+0.10
214	..	49	4.5	8.4	4.45	0.21	49	4.3	8.2	4.25	0.41	49	4.66	4.66	0.00	
215	..	49	6.5	11.1	6.50	0.21	49	6.2	10.0	6.10	0.41	49	6.71	6.51	+0.20	
216	..	49	.....	12.3	8.30	0.21	49	7.7	11.9	7.80	0.41	49	8.51	8.21	+0.30
217	..	50	5.9	9.9	5.90	0.21	.....	.....	.....	.....	.....	50	6.11	.....	.....
218	11	51	9.6	13.5	9.55	0.21	51	9.2	13.2	9.20	0.40	51	9.76	9.60	+0.16	
219	13	51	.....	16.9	12.90	0.21	.....	.....	.....	.....	.....	51	13.11	.....	.....
220	9	51	20.0	23.9	19.95	0.21	51	19.8	23.9	19.85	0.40	51	20.16	20.25	-0.09	
221	10-11	51	49.2	53.0	49.10	0.20	51	49.0	52.9	48.95	0.40	51	49.30	49.35	-0.05	
222	6	51	50.3	54.7	50.50	0.20	.....	.....	.....	.....	.....	51	50.70	.....	.....
223	11	51	54.0	58.3	54.15	0.20	51	54.2	58.0	54.10	0.40	51	54.35	54.50	-0.15	
224	11-12	52	32.2	36.3	32.25	0.20	52	32.2	36.1	32.15	0.40	52	32.45	32.55	-0.10	
225	11	15 53	1.6	5.5	1.55	+0.20	15 53	1.4	5.4	1.40	+0.40	15 53	1.75	1.80	-0.05	

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 126.	d.	Zone 127.	d.	Zone 126.	Zone 127.		
181	+ 7 21	+ 0.3	+ 7 22	- 0.3	+ 0 57 21.3	21.7	- 0.4	
182	2 59	0.3	2 59	0.0	0 52 59.3	59.0	+ 0.3	
183	2 8	0.3	2 4	0.0	0 52 8.3	4.0	+ 4.3	
184	1 5	0.3	1 6	+ 0.1	0 51 5.3	6.1	- 0.8	
185	6 40	0.2	6 ..	...	0 56 40.2	....	...
186	....	...	0 43	+ 0.1	0 50	43.1	...	
187	10 4	0.2	10 4	- 0.5	1 0 4.2	3.5	+ 0.7	
188	1 0	0.3	1 1	+ 0.1	0 51 0.3	1.1	- 0.8	
189	10 0	0.1	10 2	- 0.5	1 0 0.1	1.5	- 1.4	
190	4 11	0.2	....	...	0 54 11.2	....	...
191	4 42	0.3	4 44	0.2	0 54 42.3	43.8	- 1.5	
192	2 40	0.2	2 42	0.0	0 52 40.2	42.0	- 1.8	
193	6 58	0.1	....	...	0 56 58.1	....	...
194	7 40	0.1	7 41	0.4	0 57 40.1	40.6	- 0.5	
195	4 57	0.1	4 58	0.2	0 54 57.1	57.8	- 0.7	
196	10 5	0.0	10 7	0.6	1 0 5.0	6.4	- 1.4	
197	3 0	0.2	2 59	0.1	0 52 60.2	58.9	+ 1.3	
198	10 20	0.0	10 20	0.6	1 0 20.0	19.4	+ 0.6	
199	6 9	0.1	6 8	0.3	0 56 9.1	7.7	+ 1.4	
200	7 45	0.0	7 47	0.4	0 57 45.0	46.6	- 1.6	
201	8 35	0.0	8 35	0.5	0 58 35.0	34.5	+ 0.5	
202	8 26	0.0	8 28	- 0.5	0 58 26.0	27.5	- 1.5	
203	0 3	+ 0.2	0 3	+ 0.1	0 50 3.2	3.1	+ 0.1	
204	7 33	0.0	7 34	- 0.5	0 57 33.0	33.5	- 0.5	
205	6 0	0.0	6 1	0.4	0 56 0.0	0.6	- 0.6	
206	5 50	0.0	5 49	0.3	0 55 50.0	48.7	+ 1.3	
207	5 55	0.0	5 55	0.4	0 55 55.0	54.6	+ 0.4	
208	4 37	0.0	4 37	0.3	0 54 37.0	36.7	+ 0.3	
209	5 40	0.0	5 40	0.4	0 55 40.0	39.6	+ 0.4	
210	10 30	- 0.1	....	...	1 0 29.9	....	...
211	1 28	+ 0.1	1 29	0.1	0 51 28.1	28.9	- 0.8	
212	....	...	4 11	0.3	0 54	10.7	...	
213	9 9	- 0.1	9 9	0.6	0 59 8.9	8.4	+ 0.5	
214	5 5	...	....	...	.....	....	...
215	6 ..	...	....	...	.....	....	...
216	2 ..	...	....	...	.....	....	...	Declinations cannot certainly be identified.
217	....	...	....	...	.....	....	...
218	10 25	0.1	10 24	0.7	1 0 24.9	23.3	+ 1.6	
219	....	...	....	...	.....	....	...
220	....	...	....	...	.....	....	...
221	8 14	0.1	8 13	0.6	0 58 13.9	12.4	+ 1.5	Comp. s. f. 10'.
222	10 7	0.1	10 7	0.7	1 0 6.9	6.3	+ 0.6	
223	5 8	0.0	....	...	0 55 8.0	....	...
224	4 8	0.0	4 9	0.3	0 54 8.0	8.7	- 0.7	
225	+ 4 45	- 0.1	+ 4 45	- 0.4	+ 0 54 44.9	44.6	+ 0.3	

ZONE OBSERVATIONS.

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. +^o50 to ⁱ0.

Number of the Star.	Magnitude.	ZONE 126.					ZONE 127.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 126.	Zone 127.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	
226	12-13	15 54 9.2	13.4	9.30	+0.20	15 54 9.2	13.3	9.25	+0.39	15 54 9.50	9.64	-0.14		
227	10-11	54 17.0	20.9	16.95	0.20	54 16.7	20.7	16.70	0.39	54 17.15	17.09	+0.06		
228	9	54 19.1	23.0	19.05	0.20	54 18.9	22.9	18.90	0.39	54 19.25	19.29	-0.04		
229	10-11	54 59.3	63.2	59.25	0.20	54 59.0	63.0	59.00	0.39	54 59.45	59.39	+0.06		
230	12	55 17.3	21.2	17.25	0.19	55 16.9	21.0	16.95	0.39	55 17.44	17.34	+0.10		
231	12	55 41.8	45.6	41.70	0.19	55 41.5	45.4	41.45	0.39	55 41.89	41.84	+0.05		
232	12	.....	.....	.....	.....	56 30.5	34.3	30.40	0.39	56	30.79	.....	
233	11	58 40.6	44.6	40.60	0.18	58 40.4	44.2	40.30	0.38	58 40.78	40.68	+0.10		
234	12	15 59 32.6	36.5	32.55	0.18	15 59 32.4	36.5	32.45	0.38	15 59 32.73	32.83	-0.10		
235	12	16 0 14.2	18.2	14.20	0.18	16 0 14.1	18.1	14.10	0.37	16 0 14.38	14.47	-0.09		
236	11-12	0 47.0	50.8	46.90	0.18	0 46.8	50.7	46.75	0.37	0 47.08	47.12	-0.04		
237	9	1	24.5	20.50	0.18	1 20.3	24.3	20.30	0.37	1 20.68	20.67	+0.01		
238	11	1	26.9	22.90	0.18	.....	.....	.....	.....	1 23.08	.....	.....
239	11	2 38.2	42.0	38.10	0.17	2 37.7	41.8	37.75	0.37	2 38.27	38.12	+0.15		
240	11	.....	.....	.....	.....	3 16.2	20.1	16.15	0.36	3	16.51	.....	
241	11	.....	.....	.....	.....	3 21.6	25.4	21.50	0.36	3	21.86	.....	
242	10	16 3 44.0	48.1	44.05	+0.17	16 3 43.8	47.8	43.80	+0.36	16 3 44.22	44.17	+0.05		

A.R. ^{h.}13 ^{m.}54 to ^{h.}16 ^{m.}3.Dec. +⁰ 50 to ¹ 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 126.	d.	Zone 127.	d.	Zone 126.	Zone 127.		
226	+ 6 10	- 0.1	+ 6 10	- 0.5	+ 0 56 9.9	9.5	+ 0.4	Cirrus clouds.
227	6 5	0.1	6 5	0.5	0 56 4.9	4.5	+ 0.4	
228	1 50	0.0	1 50	0.2	0 51 50.0	49.8	+ 0.2	
229	5 13	0.1	5 12	0.4	0 55 12.9	11.6	+ 1.3	
230	5 10	0.1	5 10	0.4	0 55 9.9	9.6	+ 0.3	
231	9 43	0.2	9 43	0.7	0 59 42.8	42.3	+ 0.5	
232	....	...	9 30	0.7	0 59	29.3	...
233	8 27	0.2	8 27	0.7	0 58 26.8	26.3	+ 0.5	
234	4 17	0.2	4 19	0.4	0 54 16.8	18.6	- 1.8	
235	0 24	0.1	0 28	0.1	0 50 23.9	27.9	- 4.0	
236	7 1	0.3	7 1	0.6	0 57 0.7	0.4	+ 0.3	Comp. 17" s. f. 14th mag.
237	8 7	0.3	8 8	0.7	0 58 6.7	7.3	- 0.6	
238	0 22	0.1	0 0	...	0 50 21.9	....	...
239	9 4	0.3	9 3	0.8	0 59 3.7	8.5	- 4.8	
240	....	...	....	0.2	0 50	53.8	...
241	4 20	0.5	0 54	19.5	...	Cloudy.
242	+ 5 28	- 0.3	+ 5 28	- 0.5	+ 0 55 27.7	27.5	+ 0.2	

ZONE OBSERVATIONS.

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 128.				ZONE 130.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 128.	Zone 130.	
1	9-10	15 57 5.7	9.6	5.65	-0.19	15 57 4.9	9.0	4.95	+0.61	15 57 5.46	5.56	-0.10
2	12-13	58 15.8	14.8	15.80	0.19	58 14.9	19.1	15.00	0.60	58 15.61	15.60	+0.01
3	12	59 1.0	4.9	0.95	0.20	59 0.1	4.2	0.15	0.59	59 0.75	0.74	+0.01
4	11	59 40.0	43.9	39.95	0.22	59 39.2	43.2	39.20	0.58	59 39.73	39.78	-0.05
5	12	15 59 49.3	53.4	49.35	0.21	15 59 48.7	52.7	48.70	0.58	15 59 49.14	49.28	-0.14
6	10-12	16 0 11.6	15.5	11.55	0.22	16 0 11.1	14.9	11.00	0.58	16 0 11.33	11.58	-0.25
7	11	0 14.3	18.5	14.40	0.20	0 13.7	17.6	13.65	0.59	0 14.20	14.24	-0.04
8	10-12	0 29.9	33.8	29.85	0.22	0 29.2	33.3	29.25	0.58	0 39.63	29.83	-0.20
9	11-12	1 4.7	8.6	4.65	0.22	1 3.8	8.0	3.90	0.58	1 4.43	4.48	-0.05
10	11	1 23.3	27.2	23.25	0.21	1 22.5	26.6	22.55	0.58	1 23.04	23.13	-0.09
11	12	1 36.3	40.5	36.40	0.22	.....	.....	.....	.....	1 36.18	.....	.....
12	10-12	2 11.0	15.1	11.05	0.22	2 10.3	14.4	10.35	0.57	2 10.83	10.92	-0.09
13	10-11	3 0.7	4.9	0.80	0.23	3 0.0	4.1	0.05	0.56	3 0.57	0.61	-0.04
14	12-13	3 21.4	25.1	21.25	0.24	3 20.7	24.6	20.65	0.56	3 21.01	21.21	-0.20
15	12-13	3 45.4	49.2	45.30	0.23	3 44.3	48.4	44.35	0.56	3 45.07	44.91	+0.16
16	12	5 44.0	48.0	44.00	0.23	5 43.1	46.9	43.00	0.54	5 43.77	43.54	+0.23
17	12	6 6.4	10.2	6.30	0.24	6 5.3	9.4	5.35	0.54	6 6.06	5.89	+0.17
18	9	8 20.0	24.0	20.00	0.26	8 19.3	23.2	19.25	0.52	8 19.74	19.77	-0.03
19	9-10	9 3.5	7.4	3.45	0.27	9 2.9	6.9	2.90	0.51	9 3.18	3.41	-0.23
20	8-9	9 4.2	8.0	4.10	0.27	9 3.3	7.2	3.25	0.51	9 3.83	3.76	+0.07
21	12-13	9 39.6	43.4	39.50	0.27	9 38.7	42.6	38.65	0.51	9 39.23	39.16	+0.07
22	12	10 8.8	12.5	8.65	0.27	10 7.7	11.9	7.80	0.50	10 8.38	8.30	+0.08
23	7-9	10 16.9	20.8	16.85	0.27	10 16.1	20.1	16.10	0.50	10 16.58	16.60	-0.02
24	9-10	11 17.2	21.2	17.20	0.28	11 16.5	20.3	16.40	0.50	11 16.92	16.90	+0.02
25	11-12	12 6.2	.....	6.20	0.29	12 5.5	.....	.....	.....	12 5.91	.....	.....
26	11-12	12 10.1	14.0	10.05	0.28	12 9.2	13.3	9.25	0.49	12 9.77	9.74	+0.03
27	12	12 53.2	.....	53.20	0.28	12 52.3	56.4	52.35	0.49	12 52.92	52.84	+0.08
28	10-11	13 4.9	8.8	4.85	0.29	13 4.0	8.1	4.05	0.48	13 4.56	4.53	+0.03
29	12	13 13.1	17.0	13.05	0.30	13 12.3	16.4	12.35	0.48	13 12.75	12.83	-0.08
30	12	13 41.0	44.9	40.95	0.29	13 40.2	44.1	40.15	0.48	13 40.66	40.63	+0.03
31	12	14 3.4	7.3	3.35	0.30	.....	.....	.....	.....	14 3.05	.....	.....
32	10-11	14 33.2	37.3	33.25	0.30	14 32.4	36.6	32.50	0.47	14 32.95	32.97	-0.02
33	12	14 53.6	57.5	53.55	0.29	14 52.6	56.7	52.65	0.47	14 53.26	53.12	+0.14
34	6-8	15 2.1	6.0	2.05	0.29	15 1.1	5.1	1.10	0.48	15 1.76	1.58	+0.18
35	12	15 19.2	23.0	19.10	0.29	.....	.....	.....	.....	15 18.81	.....	.....
36	12	15 21.9	25.7	21.80	0.31	.....	.....	.....	.....	15 21.49	.....	.....
37	9-10	16 10.6	14.5	10.55	0.30	16 9.6	13.7	9.65	0.46	16 10.25	10.11	+0.14
38	10-11	16 12.0	15.9	11.95	0.30	16 11.1	15.0	11.05	0.47	16 11.65	11.52	+0.13
39	11-12	16 24.0	27.9	23.95	0.30	16 23.1	27.0	23.05	0.46	16 23.65	23.51	+0.14
40	12	16 50.2	54.2	50.20	0.31	16 49.4	53.7	49.55	0.46	16 49.89	50.01	-0.12
41	11	17 7.0	11.0	7.00	0.31	17 6.3	10.2	6.25	0.46	17 6.69	6.71	-0.02
42	13	17 37.6	41.5	37.55	0.32	17 36.8	40.9	36.85	0.45	17 37.23	37.30	-0.07
43	13	18 7.6	11.2	7.40	0.32	18 6.9	10.7	6.80	0.45	18 7.08	7.25	-0.17
44	13	16 18 23.5	27.7	23.60	-0.33	.....	.....	.....	.....	16 18 23.27	.....	.....
45	12-13	.....	.....	.....	.....	16 19 40.4	41.5	40.45	+0.44	.....	40.85	.....

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 130.	d.	Zone 128.	Zone 130.		
1	+ 6 30	+ 0.8	+ 6 30	+ 1.6	+ 0 48 30.8	31.6	- 0.8	
2	7 40	0.8	7 36	1.6	0 47 40.8	37.6	+ 3.2	
3	6 38	0.8	6 28	1.5	0 46 38.8	29.5	+ 9.3	
4	0 59	0.9	0 58	1.4	0 40 59.9	59.4	+ 0.5	
5	2 19	0.9	2 8	1.4	0 42 19.9	9.4	+10.5	
6	0 2	0.9	0 2	1.4	0 40 2.9	3.4	- 0.5	
7	10 28	0.7	10 27	1.6	0 50 28.7	28.6	+ 0.1	
8	1 0	0.9	1 0	1.4	0 41 0.9	1.4	- 0.5	
9	6 4	0.8	6 4	1.5	0 46 4.8	5.5	- 0.7	
10	10 27	0.7	10 24	1.5	0 50 27.7	25.5	+ 2.2	
11	5 3	0.8	....	...	0 45 3.8	....	...
12	5 59	0.7	5 59	1.4	0 45 59.7	60.4	- 0.7	
13	7 0	0.7	7 2	1.4	0 47 0.7	3.4	- 2.7	
14	4 27	0.7	4 23	1.3	0 44 27.7	24.3	+ 3.4	
15	10 1	0.6	10 0	1.4	0 50 1.6	1.4	+ 0.2	
16	10 21	0.6	10 20	1.3	0 50 21.6	21.3	+ 0.3	
17	6 38	0.6	6 37	1.2	0 46 38.6	38.2	+ 0.4	
18	6 28	0.6	6 28	1.0	0 46 28.6	29.0	- 0.4	
19	1 53	0.7	1 53	1.0	0 41 53.7	53.0	+ 0.7	
20	4 18	0.6	4 17	1.0	0 44 18.6	18.0	+ 0.6	
21	5 30	0.6	5 29	1.0	0 45 30.6	30.0	+ 0.6	
22	5 30	0.6	5 29	1.0	0 45 30.6	30.0	+ 0.6	
23	5 51	0.6	5 52	1.0	0 45 51.6	53.0	- 1.4	
24	4 43	0.6	4 44	0.9	0 44 43.6	44.9	- 1.3	
25	3 40	0.6	3 41	0.9	0 43 40.6	41.9	- 1.3	Many stars passed unobserved.
26	6 26	0.5	6 27	0.9	0 46 26.5	27.9	- 1.4	
27	7 39	0.5	7 39	0.9	0 47 39.5	39.9	- 0.4	
28	6 26	0.5	6 26	0.9	0 46 26.5	26.9	- 0.4	
29	0 37	0.6	0 37	0.8	0 40 37.6	37.8	- 0.2	
30	6 48	0.5	6 47	0.9	0 46 48.5	47.9	+ 0.6	
31	0 40	0.5	....	...	0 40 40.5	....	...
32	6 49	0.5	6 49	0.9	0 46 49.5	49.9	- 0.4	
33	8 56	0.4	8 56	0.9	0 48 56.4	56.9	- 0.5	
34	10 17	0.4	10 7	0.8	0 50 17.4	7.8	+ 9.6	
35	9 19	0.4	....	...	0 49 19.4	....	...	Zone 130 probably correct.
36	1 0	0.6	....	...	0 41 0.6	....	...
37	7 29	0.4	7 28	0.8	0 47 29.4	28.8	+ 0.6	
38	9 43	0.4	9 43	0.8	0 49 43.4	43.8	- 0.4	
39	6 50	0.4	6 50	0.8	0 46 50.4	50.8	- 0.4	
40	5 30	0.4	5 29	0.7	0 45 30.4	29.7	+ 0.7	
41	6 39	0.4	6 39	0.8	0 46 39.4	39.8	- 0.4	
42	2 52	0.5	2 51	0.7	0 42 52.5	51.7	+ 0.8	
43	2 32	0.5	2 32	0.6	0 42 32.5	32.6	- 0.1	
44	+ 0 10	+ 0.5	....	...	0 40 10.5	....	...
45	....	...	+ 2 14	+ 0.6	+ 0 42	14.6	...	

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. $\pm 0^\circ 40'$ to $0^\circ 50'$.

Number of the Star.	Magnitude.	ZONE 128.					ZONE 130.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	<i>k.</i>	First Wire.		Second Wire.	Mean red. to 1st Wire.	<i>k.</i>	Zone 128.		Zone 130.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	
46	8	16 20 1.9	6.1	2.00	-0.33		16 20 1.2	5.2	1.20	+0.43		16 20 1.67	1.63	+0.04	
47	9	20 20.2	24.2	20.20	0.32		20 19.5	23.5	19.50	0.44		20 19.88	19.94	-0.06	
48	11	20 28.8	32.8	28.80	0.33		20 28.0	32.1	28.05	0.44		20 28.47	28.49	-0.02	
49	13	21 3.7	7.4	3.55	0.34		21 2.6	6.7	2.65	0.43		21 3.21	3.08	+0.13	
50	..	21 26.6	30.4	26.50	0.34		21 25.9	29.9	25.90	0.43		21 26.16	26.33	-0.17	
51	12	21 34.1	38.3	34.20	0.34		21 33.3	37.5	33.40	0.42		21 33.86	33.82	+0.04	
52	13	21 50.4	54.6	50.50	0.34		.....	.....	.....	.....		21 50.16	.....	.....
53	12-13	22 29.3	33.2	29.25	0.35		22 28.5	32.5	28.50	0.41		21 28.90	28.91	-0.01	
54	12-13	23 8.6	12.5	8.55	0.36		23 8.1	11.9	8.00	0.41		23 8.19	8.41	-0.22	
55	13	23 46.4	50.3	46.35	0.35		23 45.7	49.8	45.75	0.40		23 46.00	46.15	-0.15	
56	13	24 7.8	11.9	7.85	0.35		24 7.2	11.1	7.15	0.40		24 7.50	7.55	-0.05	
57	13	24	50.7	46.70	0.35		24 46.0	50.0	46.00	0.40		24 46.35	46.40	-0.05	
58	11-12	24 52.9	56.9	52.90	0.36		24 52.1	56.1	52.10	0.40		24 52.54	52.50	+0.04	
59	12	25 20.5	24.4	20.45	0.36		25 19.7	23.7	19.70	0.39		25 20.09	20.09	0.00	
60	11-12	25 22.2	26.2	22.20	0.37		25 21.7	25.6	21.65	0.39		25 21.83	22.04	-0.21	
61	13	27 16.7	20.6	16.65	0.38		27	19.9	15.90	0.37		27 16.27	16.27	0.00	
62	13	27 46.2	50.5	46.35	0.39		27 45.9	50.0	45.95	0.37		27 45.96	46.32	-0.36	
63	13	28 16.6	20.7	16.65	0.39		28 15.8	19.8	15.80	0.37		28 16.26	16.17	+0.09	
64	12-13	28 35.3	39.4	35.35	0.38		28 34.7	38.7	34.70	0.37		28 34.97	35.07	-0.10	
65	12-13	29 10.7	15.0	10.85	0.39		29 10.2	14.4	10.30	0.36		29 10.46	10.66	-0.20	
66	12	29 36.8	40.7	36.75	0.38		29 36.0	39.8	35.90	0.36		29 36.37	36.26	+0.11	
67	12-13	30 28.0	31.9	27.95	0.39		30 27.1	31.2	27.15	0.35		30 27.56	27.50	+0.06	
68	11-12	30 44.1	48.0	44.05	0.40		30 43.4	47.4	43.40	0.35		30 43.65	43.75	-0.10	
69	11	30 45.7	49.7	45.70	0.40		30 44.9	49.0	44.95	0.34		30 45.30	45.29	+0.01	
70	10-11	31 0.0	4.1	0.05	0.38		31	3.2	59.20	0.35		30 59.67	59.55	+0.12	
71	....	31 13.5	17.6	13.55	0.40		.....	.....	.....	.....		31 13.15	.....	.....
72	11-12	31 37.4	41.4	37.40	0.40		31 36.6	40.6	36.60	0.34		31 37.00	36.94	+0.06	
73	11-12	31 45.6	49.7	45.65	0.41		31 44.9	48.9	44.90	0.34		31 45.24	45.24	0.00	
74	12-13	32 46.1	50.2	46.15	0.41		32 45.6	49.5	45.55	0.33		32 45.74	45.88	-0.14	
75	12-13	32 47.1	51.2	47.15	0.41		32 46.3	50.2	46.25	0.33		32 46.74	46.58	+0.16	
76	12	32 57.6	61.6	57.60	0.41		.....	.....	.....	.....		32 57.19	.....	.....
77	12	33 10.5	14.5	10.50	0.41		33	13.7	9.70	0.33		33 10.09	10.03	+0.06	
78	13	33 38.3	42.3	38.30	0.42		33 37.5	41.5	37.50	0.33		33 37.88	37.83	+0.05	
79	12	33 46.9	50.8	46.85	0.42		33 46.0	50.1	46.05	0.33		33 46.43	46.38	+0.05	
80	11	34 1.5	5.5	1.50	0.42		34 0.7	4.9	0.80	0.32		34 1.08	1.12	-0.04	
81	8-9	34 10.0	14.1	10.05	0.41		34 9.2	13.2	9.20	0.33		34 9.64	9.53	+0.11	
82	11-12	34 12.7	17.0	12.85	0.41		.....	.....	.....	.....		34 12.44	.....	.....
83	11	34 45.1	49.1	45.10	0.42		34 44.1	48.2	44.15	0.32		34 44.68	44.47	+0.21	
84	12-13	35 11.6	15.8	11.70	0.43		35 10.8	15.1	10.95	0.31		35 11.27	11.26	+0.01	
85	8-9	35 29.3	33.3	29.30	0.42		35 28.4	32.5	28.45	0.32		35 28.88	28.77	+0.11	
86	11-12	35 52.2	56.2	52.20	0.41		35 51.3	55.4	51.35	0.32		35 51.79	51.67	+0.12	
87	13	36 14.7	18.7	14.70	0.43		.....	.....	.....	.....		36 16.27	.....	.....
88	11-12	37	34.0	30.00	0.42		.....	.....	.....	.....		37 29.58	.....	.....
89	11-12	37 37.0	40.9	36.95	0.44		37 36.0	40.1	36.05	0.30		37 36.51	36.35	+0.16	
90	11-12	16 38 31.4	35.5	31.45	-0.45		16 38 31.1	34.9	31.00	+0.29		16 38 31.00	31.29	-0.29	

.. ^{h.} 15 ^{m.} 57 to ^{h.} 17 ^{m.} 37Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 130.	d.	Zone 128.	Zone 130.		
46	+ 3 25	+ 0.5	Not in Argelander.
47	+ 7 56	+ 0.3	7 57	0.6	+ 0 47 56.3	57.6	- 1.3	
48	9 0	0.3	9 0	0.6	0 49 0.3	0.6	- 0.3	
49	4 30	0.4	4 31	0.5	0 44 30.4	31.5	- 1.1	
50	6 2	0.3	6 2	0.5	0 46 2.3	2.5	- 0.2	
51	6 0	0.3	6 0	0.5	0 46 0.3	0.5	- 0.2	
52	3 30	0.4	.....	...	0 43 30.4	.....	...
53	1 38	0.4	1 35	0.4	0 41 38.4	35.4	+ 3.0	
54	0 33	0.4	0 33	0.3	0 40 33.4	33.3	+ 0.1	
55	4 20	0.3	4 20	0.4	0 44 20.3	20.4	- 0.1	
56	5 20	0.3	5 20	0.4	0 45 20.3	20.4	- 0.1	
57	10 38	0.2	10 38	0.4	0 50 38.2	38.4	- 0.2	
58	4 35	0.3	4 35	0.3	0 44 35.3	35.3	0.0	
59	3 0	0.3	3 0	0.3	0 43 0.3	0.3	0.0	
60	1 56	0.4	1 57	0.2	0 41 56.4	57.2	- 0.8	
61	2 59	0.3	2 59	0.2	0 42 59.3	59.2	+ 0.1	
62	0 20	0.3	0 20	0.1	0 40 20.3	20.1	+ 0.2	
63	1 20	0.3	1 19	0.1	0 41 20.3	19.1	+ 1.2	
64	7 15	0.2	7 13	0.1	0 47 15.2	13.1	+ 2.1	
65	2 45	0.3	2 46	0.1	0 42 45.3	46.1	- 0.8	
66	9 40	0.1	9 41	0.1	0 49 40.1	41.1	- 1.0	
67	5 0	0.2	5 0	0.0	0 45 0.2	0.0	+ 0.2	
68	0 55	0.3	0 55	0.0	0 40 55.3	55.0	+ 0.3	
69	0 14	0.3	8 17	0.0	0 40 14.3	17.0	- 2.7	
70	10 46	0.1	10 46	+ 0.1	0 50 46.1	46.1	0.0	
71	
72	5 34	0.2	5 34	0.0	0 45 34.2	34.0	+ 0.2	
73	2 41	0.2	2 42	- 0.1	0 42 41.2	41.9	- 0.7	
74	4 18	0.2	4 14	0.1	0 44 18.2	13.9	+ 4.3	
75	4 1	0.2	4 2	0.1	0 44 1.2	1.9	- 0.7	
76	2 50	0.2	0 42 50.2	
77	5 9	0.1	5 9	0.1	0 45 9.1	8.9	+ 0.2	
78	4 10	0.1	4 12	0.1	0 44 10.1	11.9	- 1.8	
79	3 14	0.2	3 13	0.2	0 43 14.2	12.8	+ 1.4	
80	0 17	0.2	0 17	0.2	0 40 17.2	16.8	+ 0.4	
81	6 57	0.1	6 57	0.1	0 46 57.1	56.9	+ 0.2	
82	5 ..	...	.....	...	.....	.....	...
83	3 34	0.1	3 35	0.2	0 43 34.1	34.8	- 0.7	
84	0 25	0.2	0 26	0.3	0 40 25.2	25.7	- 0.5	
85	7 53	0.0	7 54	0.2	0 47 53.0	53.8	- 0.8	
86	10 3	0.0	10 2	0.2	0 50 3.0	1.8	+ 1.2	
87	4 0	0.1	.....	...	.....	.....	...
88	10 30	0.0	10 29	0.3	0 50 30.0	28.7	+ 1.3	
89	1 26	0.1	1 27	0.4	0 41 26.1	26.6	- 0.5	
90	+ 1 53	+ 0.1	+ 1 53	- 0.4	+ 0 41 53.1	52.6	+ 0.5	

ZONE OBSERVATIONS.

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.

Dec. +0° 40' to 0° 50'.

Number of the Star.	Magnitude.	ZONE 128.						ZONE 130.						MEAN RIGHT ASCENSION. 1859.0				Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 128.		Zone 130.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.		s.	
91	11-12	16	38	34.6	38.7	34.65	-0.44	16	38	34.2	38.2	34.20	+0.30	16	38	34.21	34.50	-0.29		
92	11-13		38	....	41.9	37.90	0.44		38	....	41.4	37.40	0.29		38	37.46	37.69	-0.23
93	11-13		39	1.0	5.1	1.05	0.44		39	0.5	4.6	0.55	0.29		39	0.61	0.84	-0.23		
94	12		39	43.3	47.2	43.25	0.45		39	42.8	46.9	42.85	0.29		39	42.80	43.14	-0.34		
95	12		39	55.5	59.2	55.35	0.46		39	54.8	58.8	54.80	0.28		39	54.89	55.08	-0.19		
96	11-12		40	10.7	14.5	10.60	0.45		....	....	....	....	....		40	10.15	....	....
97	11-12		40	11.3	15.2	11.25	0.45		40	10.7	14.7	10.70	0.28		40	10.80	10.42	+0.38		
98	12		40	58.6	62.7	58.65	0.45		40	58.2	62.3	58.25	0.28		40	58.20	58.53	-0.33		
99	12		41	15.2	19.3	15.50	0.45		41	14.9	18.9	14.90	0.28		41	15.05	15.18	-0.13		
100	12-13		41	56.9	61.0	56.95	0.45		41	56.3	60.4	56.35	0.27		41	56.50	56.62	-0.12		
101	13		42	19.7	23.4	19.55	0.47		42	19.2	23.3	19.25	0.27		42	19.08	19.52	-0.44		
102	12		42	30.5	34.7	30.60	0.47		42	30.2	34.3	30.25	0.26		42	30.13	30.51	-0.38		
103	12-13		42	51.8	55.7	51.75	0.46		42	51.2	55.4	51.30	0.27		42	51.29	51.57	-0.28		
104	13		43	9.7	13.3	9.50	0.47		....	....	....	....	....		43	9.03	....	....
105	12-13		44	13.5	17.5	13.50	0.47		44	13.0	....	13.00	0.25		44	13.03	13.25	-0.22	
106	12		44	25.1	29.0	25.05	0.47		44	24.6	28.6	24.60	0.25		44	24.58	24.85	-0.27		
107	10		44	26.2	30.0	26.10	0.48		44	25.6	29.5	25.55	0.25		44	25.62	25.80	-0.18		
108	11		44	28.2	32.1	28.15	0.47		44	....	31.7	27.70	0.25		44	27.68	27.95	-0.27	
109	12		44	53.1	57.1	53.10	0.48		44	52.6	56.6	52.60	0.24		44	52.62	52.84	-0.22		
110	12		45	6.4	10.4	6.40	0.49		45	6.0	10.1	6.05	0.24		45	5.91	5.81	+0.10		
111	12		45	41.6	....	41.60	0.49		45	....	45.0	41.00	0.24		45	41.11	41.24	-0.13
112	11-13		45	....	45.3	41.30	0.48		45	40.9	....	40.90	0.24		45	40.82	41.14	-0.32
113	12-13		46	25.0	28.7	24.85	0.48		46	24.2	28.2	24.20	0.24		46	24.37	24.44	-0.07		
114	11-12		46	37.2	41.2	37.20	0.48		46	36.6	40.7	36.65	0.24		46	36.72	36.89	-0.17		
115	12		46	53.0	56.9	52.95	0.48		46	52.5	56.5	52.50	0.23		46	52.47	52.73	-0.26		
116	13		47	51.6	55.7	51.65	0.48		47	51.4	55.4	51.40	0.23		47	51.17	51.63	-0.46		
117	12-13		....	....	....	....	....		49	16.8	20.8	16.80	0.21		49	....	17.01	....	
118	11-12		49	50.9	54.9	50.90	0.49		49	50.1	54.2	50.15	0.21		49	50.41	50.36	+0.05		
119	11-12		50	10.7	14.8	10.75	0.49		50	10.2	14.2	10.20	0.21		50	10.26	10.41	-0.15		
120	12		50	49.7	53.8	49.75	0.51		50	49.4	....	49.40	0.20		50	49.24	49.60	-0.36	
121	12		50	58.3	62.3	58.30	0.51		50	57.8	61.6	57.70	0.20		50	57.79	57.90	-0.11		
122	12		51	6.4	10.3	6.35	0.51		51	5.9	9.9	5.90	0.19		51	5.84	6.09	-0.25		
123	12-13		51	18.9	22.8	18.85	0.52		51	18.4	22.2	18.30	0.19		51	18.33	18.49	-0.16		
124	12		51	28.2	32.2	28.20	0.52		51	27.8	31.7	27.75	0.19		51	27.68	27.94	-0.26		
125	12-13		51	51.5	55.4	51.45	0.51		51	51.1	55.0	51.05	0.19		51	50.94	51.24	-0.30		
126	12		51	58.2	62.3	58.25	0.51		51	57.8	61.8	57.80	0.19		51	57.74	57.99	-0.25		
127	12-13		52	19.0	23.0	19.00	0.52		52	18.7	22.7	18.70	0.18		52	18.48	18.88	-0.40		
128	12-13		52	58.7	62.7	58.70	0.52		52	58.3	62.3	58.30	0.18		52	58.18	58.48	-0.30		
129	13		53	21.0	24.9	20.95	0.53		53	20.5	24.4	20.45	0.18		53	20.42	20.63	-0.21		
130	12-13		53	35.9	40.0	35.95	0.52		53	35.4	39.6	35.50	0.18		53	35.38	35.68	-0.30		
131	13		54	0.7	4.7	0.70	0.52		54	0.3	4.2	0.25	0.17		54	0.18	0.42	-0.24		
132	9-11		54	2.9	6.8	2.85	0.53		54	2.5	6.4	2.45	0.17		54	2.32	2.62	-0.30		
133	12-13		54	20.0	24.0	20.00	0.52		54	19.6	23.7	19.65	0.17		54	19.48	19.82	-0.34		
134	12		54	34.2	38.2	34.20	0.53		54	33.7	37.8	33.75	0.17		54	33.67	33.92	-0.25		
135	11-12	16	54	43.1	47.1	43.10	-0.52		16	54	42.5	46.4	42.45	+0.17		16	54	42.58	42.62	-0.04

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 130.	d.	Zone 128.	Zone 130.		
91	+ 8 59	0.0	+ 8 58	- 0.3	+ 0 48 59.0	57.7	+ 1.3	Comp. n. p. 10". A number of small stars.
92	3 38	+ 0.1	3 39	0.4	0 43 38.1	38.6	- 0.5	
93	6 29	0.0	6 30	0.4	0 46 29.0	29.6	- 0.6	
94	4 38	0.0	4 40	0.4	0 44 38.0	39.6	- 1.6	
95	1 52	+ 0.1	1 53	0.5	0 41 52.1	52.5	- 0.4	
96	4 37	0.0	....	...	0 44 37.0	....	...
97	4 31	0.0	4 32	0.5	0 44 31.0	31.5	- 0.5	
98	8 59	- 0.1	8 58	0.5	0 48 58.9	57.5	+ 1.4	
99	10 27	0.1	10 27	0.4	0 50 26.9	26.6	+ 0.3	
100	8 28	- 0.1	8 27	0.5	0 48 27.9	26.5	+ 1.4	
101	+ 0 59	+ 0.1	+ 0 59	0.6	0 40 59.1	58.4	+ 0.7	Touched the telescope.
102	- 0 7	+ 0.1	- 0 5	0.6	0 39 53.1	54.4	- 1.3	
103	+ 8 12	- 0.1	+ 8 12	0.5	0 48 11.9	11.5	+ 0.4	
104	3 51	0.0	....	...	0 43 51.0	....	...
105	4 19	0.0	4 20	0.6	0 44 19.0	19.4	- 0.4	
106	4 0	0.0	4 1	0.6	0 44 0.0	0.4	- 0.4	
107	3 18	0.0	3 18	0.6	0 43 18.0	17.4	+ 0.6	
108	7 8	0.1	7 8	0.6	0 47 7.9	7.4	+ 0.5	
109	0 57	0.0	0 57	0.7	0 40 57.0	56.3	+ 0.7	
110	0 0	0.0	0 0	0.7	0 39 60.0	59.3	+ 0.7	
111	1 37	0.0	1 39	0.7	0 41 37.0	38.3	- 1.3	
112	5 38	0.1	5 28	0.7	0 45 37.9	27.3	+10.6	
113	7 50	0.1	7 51	0.7	0 47 49.9	50.3	- 0.4	
114	8 7	0.1	8 7	0.7	0 48 6.9	6.3	+ 0.6	
115	6 19	0.1	6 19	0.7	0 46 18.9	18.3	+ 0.6	
116	10 32	0.2	10 32	0.7	0 50 31.8	31.3	+ 0.5	
117	5 40	0.1	5 42	0.8	0 45 39.9	41.2	- 1.3	
118	7 38	0.2	7 38	0.8	0 47 37.8	37.2	+ 0.6	
119	8 24	0.2	8 25	0.8	0 48 23.8	24.2	- 0.4	
120	4 42	0.1	4 42	0.9	0 44 41.9	41.1	+ 0.8	
121	3 36	0.1	3 37	0.9	0 43 35.9	36.1	- 0.2	
122	2 12	0.1	2 14	0.9	0 42 11.9	13.1	- 1.2	
123	0 20	0.0	0 22	1.0	0 40 20.0	21.0	- 1.0	
124	1 22	0.0	....	...	0 41 22.0	....	...
125	4 37	0.1	4 36	0.9	0 44 36.9	35.1	+ 1.8	
126	6 34	0.2	6 35	0.9	0 46 33.8	34.1	- 0.3	
127	1 58	0.1	1 58	1.0	0 41 57.9	57.0	+ 0.9	
128	2 0	0.1	2 1	1.0	0 41 59.9	60.0	- 0.1	
129	1 35	0.1	1 36	1.0	0 41 34.9	35.0	- 0.1	
130	4 8	0.2	4 9	1.0	0 44 7.8	8.0	- 0.2	
131	5 11	0.2	5 12	1.0	0 45 10.8	11.0	- 0.2	
132	3 1	0.1	3 2	1.1	0 43 0.9	0.9	0.0	
133	5 39	0.2	5 42	1.1	0 45 38.8	40.9	- 2.1	
134	2 3	0.1	2 2	1.1	0 42 2.9	0.9	+ 2.0	
135	+ 8 14	- 0.3	+ 8 15	- 1.0	+ 0 48 13.7	14.0	- 0.3	

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 128.					ZONE 130.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 128.		Zone 130.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.			
91	11-12	16 38 34.6	38.7	34.65	-0.44	16 38 34.2	38.2	34.20	+0.30	16 38 34.21	34.50	-0.29					
92	11-13	38	41.9	37.90	0.44	38	41.4	37.40	0.29	38 37.46	37.69	-0.23					
93	11-13	39 1.0	5.1	1.05	0.44	39 0.5	4.6	0.55	0.29	39 0.61	0.84	-0.23					
94	12	39 43.3	47.2	43.25	0.45	39 42.8	46.9	42.85	0.29	39 42.80	43.14	-0.34					
95	12	39 55.5	59.2	55.35	0.46	39 54.8	58.8	54.80	0.28	39 54.89	55.08	-0.19					
96	11-12	40 10.7	14.5	10.60	0.45	.....	.....	.....	.....	40 10.15	.....	.....			
97	11-12	40 11.3	15.2	11.25	0.45	40 10.7	14.7	10.70	0.28	40 10.80	10.42	+0.38					
98	12	40 58.6	62.7	58.65	0.45	40 58.2	62.3	58.25	0.28	40 58.20	58.53	-0.33					
99	12	41 15.2	19.3	15.50	0.45	41 14.9	18.9	14.90	0.28	41 15.05	15.18	-0.13					
100	12-13	41 56.9	61.0	56.95	0.45	41 56.3	60.4	56.35	0.27	41 56.50	56.62	-0.12					
101	13	42 19.7	23.4	19.55	0.47	42 19.2	23.3	19.25	0.27	42 19.08	19.52	-0.44					
102	12	42 30.5	34.7	30.60	0.47	42 30.2	34.3	30.25	0.26	42 30.13	30.51	-0.38					
103	12-13	42 51.8	55.7	51.75	0.46	42 51.2	55.4	51.30	0.27	42 51.29	51.57	-0.28					
104	13	43 9.7	13.3	9.50	0.47	.....	.....	.....	.....	43 9.03	.....	.....			
105	12-13	44 13.5	17.5	13.50	0.47	44 13.0	.....	13.00	0.25	44 13.03	13.25	-0.22				
106	12	44 25.1	29.0	25.05	0.47	44 24.6	28.6	24.60	0.25	44 24.58	24.85	-0.27					
107	10	44 26.2	30.0	26.10	0.48	44 25.6	29.5	25.55	0.25	44 25.62	25.80	-0.18					
108	11	44 28.2	32.1	28.15	0.47	44	31.7	27.70	0.25	44 27.68	27.95	-0.27					
109	12	44 53.1	57.1	53.10	0.48	44 52.6	56.6	52.60	0.24	44 52.62	52.84	-0.22					
110	12	45 6.4	10.4	6.40	0.49	45 6.0	10.1	6.05	0.24	45 5.91	5.81	+0.10					
111	12	45 41.6	.....	41.60	0.49	45	45.0	41.00	0.24	45 41.11	41.24	-0.13				
112	11-13	45	45.3	41.30	0.48	45 40.9	.....	40.90	0.24	45 40.82	41.14	-0.32				
113	12-13	46 25.0	28.7	24.85	0.48	46 24.2	28.2	24.20	0.24	46 24.37	24.44	-0.07					
114	11-12	46 37.2	41.2	37.20	0.48	46 36.6	40.7	36.65	0.24	46 36.72	36.89	-0.17					
115	12	46 53.0	56.9	52.95	0.48	46 52.5	56.5	52.50	0.23	46 52.47	52.73	-0.26					
116	13	47 51.6	55.7	51.65	0.48	47 51.4	55.4	51.40	0.23	47 51.17	51.63	-0.46					
117	12-13	.....	.....	.....	.....	49 16.8	20.8	16.80	0.21	49	17.01	.....				
118	11-12	49 50.9	54.9	50.90	0.49	49 50.1	54.2	50.15	0.21	49 50.41	50.36	+0.05					
119	11-12	50 10.7	14.8	10.75	0.49	50 10.2	14.2	10.20	0.21	50 10.26	10.41	-0.15					
120	12	50 49.7	53.8	49.75	0.51	50 49.4	.....	49.40	0.20	50 49.24	49.60	-0.36				
121	12	50 58.3	62.3	58.30	0.51	50 57.8	61.6	57.70	0.20	50 57.79	57.90	-0.11					
122	12	51 6.4	10.3	6.35	0.51	51 5.9	9.9	5.90	0.19	51 5.84	6.09	-0.25					
123	12-13	51 18.9	22.8	18.85	0.52	51 18.4	22.2	18.30	0.19	51 18.33	18.49	-0.16					
124	12	51 28.2	32.2	28.20	0.52	51 27.8	31.7	27.75	0.19	51 27.68	27.94	-0.26					
125	12-13	51 51.5	55.4	51.45	0.51	51 51.1	55.0	51.05	0.19	51 50.94	51.24	-0.30					
126	12	51 58.2	62.3	58.25	0.51	51 57.8	61.8	57.80	0.19	51 57.74	57.99	-0.25					
127	12-13	52 19.0	23.0	19.00	0.52	52 18.7	22.7	18.70	0.18	52 18.48	18.88	-0.40					
128	12-13	52 58.7	62.7	58.70	0.52	52 58.3	62.3	58.30	0.18	52 58.18	58.48	-0.30					
129	13	53 21.0	24.9	20.95	0.53	53 20.5	24.4	20.45	0.18	53 20.42	20.63	-0.21					
130	12-13	53 35.9	40.0	35.95	0.52	53 35.4	39.6	35.50	0.18	53 35.38	35.68	-0.30					
131	13	54 0.7	4.7	0.70	0.52	54 0.3	4.2	0.25	0.17	54 0.18	0.42	-0.24					
132	9-11	54 2.9	6.8	2.85	0.53	54 2.5	6.4	2.45	0.17	54 2.32	2.62	-0.30					
133	12-13	54 20.0	24.0	20.00	0.52	54 19.6	23.7	19.65	0.17	54 19.48	19.82	-0.34					
134	12	54 34.2	38.2	34.20	0.53	54 33.7	37.8	33.75	0.17	54 33.67	33.92	-0.25					
135	11-12	16 54 43.1	47.1	43.10	-0.52	16 54 42.5	46.4	42.45	+0.17	16 54 42.58	42.62	-0.04					

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. [°]+0 40 to [°]0 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 130.	d.	Zone 128.	Zone 130.		
91	+ 8 59	0.0	+ 8 58	- 0.3	+ 0 48 59.0	57.7	+ 1.3	Comp. n. p. 10". A number of small stars.
92	3 38	+ 0.1	3 39	0.4	0 43 38.1	38.6	- 0.5	
93	6 29	0.0	6 30	0.4	0 46 29.0	29.6	- 0.6	
94	4 38	0.0	4 40	0.4	0 44 38.0	39.6	- 1.6	
95	1 52	+ 0.1	1 53	0.5	0 41 52.1	52.5	- 0.4	
96	4 37	0.0	....	...	0 44 37.0	....	...
97	4 31	0.0	4 32	0.5	0 44 31.0	31.5	- 0.5	
98	8 59	- 0.1	8 58	0.5	0 48 58.9	57.5	+ 1.4	
99	10 27	0.1	10 27	0.4	0 50 26.9	26.6	+ 0.3	
100	8 28	- 0.1	8 27	0.5	0 48 27.9	26.5	+ 1.4	
101	+ 0 59	+ 0.1	+ 0 59	0.6	0 40 59.1	58.4	+ 0.7	Touched the telescope.
102	- 0 7	+ 0.1	- 0 5	0.6	0 39 53.1	54.4	- 1.3	
103	+ 8 12	- 0.1	+ 8 12	0.5	0 48 11.9	11.5	+ 0.4	
104	3 51	0.0	....	...	0 43 51.0	....	...
105	4 19	0.0	4 20	0.6	0 44 19.0	19.4	- 0.4	
106	4 0	0.0	4 1	0.6	0 44 0.0	0.4	- 0.4	
107	3 18	0.0	3 18	0.6	0 43 18.0	17.4	+ 0.6	
108	7 8	0.1	7 8	0.6	0 47 7.9	7.4	+ 0.5	
109	0 57	0.0	0 57	0.7	0 40 57.0	56.3	+ 0.7	
110	0 0	0.0	0 0	0.7	0 39 60.0	59.3	+ 0.7	
111	1 37	0.0	1 39	0.7	0 41 37.0	38.3	- 1.3	Touched the telescope.
112	5 38	0.1	5 28	0.7	0 45 37.9	27.3	+10.6	
113	7 50	0.1	7 51	0.7	0 47 49.9	50.3	- 0.4	
114	8 7	0.1	8 7	0.7	0 48 6.9	6.3	+ 0.6	
115	6 19	0.1	6 19	0.7	0 46 18.9	18.3	+ 0.6	
116	10 32	0.2	10 32	0.7	0 50 31.8	31.3	+ 0.5	
117	5 40	0.1	5 42	0.8	0 45 39.9	41.2	- 1.3	
118	7 38	0.2	7 38	0.8	0 47 37.8	37.2	+ 0.6	
119	8 24	0.2	8 25	0.8	0 48 23.8	24.2	- 0.4	
120	4 42	0.1	4 42	0.9	0 44 41.9	41.1	+ 0.8	
121	3 36	0.1	3 37	0.9	0 43 35.9	36.1	- 0.2	Touched the telescope.
122	2 12	0.1	2 14	0.9	0 42 11.9	13.1	- 1.2	
123	0 20	0.0	0 22	1.0	0 40 20.0	21.0	- 1.0	
124	1 22	0.0	....	...	0 41 22.0	....	...
125	4 37	0.1	4 36	0.9	0 44 36.9	35.1	+ 1.8	
126	6 34	0.2	6 35	0.9	0 46 33.8	34.1	- 0.3	
127	1 58	0.1	1 58	1.0	0 41 57.9	57.0	+ 0.9	
128	2 0	0.1	2 1	1.0	0 41 59.9	60.0	- 0.1	
129	1 35	0.1	1 36	1.0	0 41 34.9	35.0	- 0.1	
130	4 8	0.2	4 9	1.0	0 44 7.8	8.0	- 0.2	
131	5 11	0.2	5 12	1.0	0 45 10.8	11.0	- 0.2	Touched the telescope.
132	3 1	0.1	3 2	1.1	0 43 0.9	0.9	0.0	
133	5 39	0.2	5 42	1.1	0 45 38.8	40.9	- 2.1	
134	2 3	0.1	2 2	1.1	0 42 2.9	0.9	+ 2.0	
135	+ 8 14	- 0.3	+ 8 15	- 1.0	+ 0 48 13.7	14.0	- 0.3	

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 128.					ZONE 130.					MEAN RIGHT ASCENSION. 1859.0					Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 128.				Zone 130.
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.		s.
136	10-11	16	54	52.1	56.2	52.15	-0.53	16	54	51.6	55.5	51.55	+0.17	16	54	51.62	51.72	-0.10
137	12-13		55	45.7	49.6	45.65	0.52		55	44.8	48.8	44.80	0.16		55	45.13	44.96	+0.17
138	11-12		56	0.7	4.7	0.70	0.54		56	0.1	4.2	0.15	0.16		56	0.16	0.31	-0.15
139	10-11		56	58.7	62.6	58.65	0.53		56	58.2	62.1	58.15	0.15		56	58.12	58.30	-0.18
140	12		57	.....	6.3	2.30	0.54		57	.....	5.9	1.90	0.15		57	1.76	2.05	-0.29
141	9-10		57	50.1	54.1	50.10	0.54		57	49.6	53.7	49.65	0.14		57	49.56	49.79	-0.23
142	11-12		58	8.6	12.6	8.60	0.55		58	7.9	12.0	7.95	0.14		58	8.05	8.09	-0.04
143	12		.....	.....	.....	.....	.....		58	16.0	19.9	15.95	0.14		58	.....	16.09	.....
144	11-12		58	56.0	60.0	56.00	0.55		58	55.5	59.5	55.50	0.13		58	55.45	55.63	-0.18
145	6-8		59	26.1	29.9	26.00	0.54		59	25.4	29.2	25.30	0.14		59	25.46	25.44	+0.02
146	11		59	37.2	41.3	37.25	0.55		59	.....	40.5	36.50	0.13		59	36.70	36.63	+0.07
147	11-10	16	59	49.1	53.0	49.05	0.55	16	59	48.4	52.7	48.55	0.13	16	59	48.50	48.68	-0.18
148	11	17	0	19.0	23.1	19.05	0.57	17	0	18.5	22.5	18.50	0.12	17	0	18.48	18.62	-0.14
149	13		0	27.2	31.2	27.20	0.57		0	26.6	30.7	26.65	0.12		0	26.63	26.77	-0.14
150	13		0	44.6	48.3	44.45	0.56	.....	.....	.....	.....	.....	.....		0	43.89	.....	.....
151	12-13		1	19.9	23.9	19.90	0.56		1	19.3	23.3	19.30	0.12		1	19.34	19.42	-0.08
152	10-11		1	39.4	43.3	39.35	0.56		1	38.9	43.0	38.95	0.12		1	38.79	39.07	-0.28
153	12		2	1.3	5.1	1.20	0.56		2	0.5	4.7	0.60	0.12		2	0.64	0.72	-0.08
154	7-9		2	32.0	36.1	32.05	0.58		2	31.5	35.4	31.45	0.11		2	31.47	31.56	-0.09
155	10-11		2	37.6	41.8	37.70	0.58		2	37.1	41.1	37.10	0.10		2	37.12	37.20	-0.08
156	6-7		3	4.6	8.6	4.60	0.59		3	4.1	8.1	4.10	0.10		3	4.01	4.20	-0.19
157	12		3	37.4	41.1	37.25	0.58		3	36.7	40.7	36.70	0.10		3	36.67	36.80	-0.13
158	12-13		4	34.1	38.1	34.10	0.58		4	33.5	37.4	33.45	0.09		4	33.52	33.54	-0.02
159	10-12		5	26.5	30.3	26.40	0.60		5	25.8	29.8	25.80	0.08		5	25.80	25.88	-0.08
160	12-13		5	43.7	47.7	43.70	0.60		5	43.2	47.2	43.20	0.08		5	43.10	43.28	-0.18
161	11-13		5	52.7	56.9	52.80	0.59		5	52.1	56.3	52.20	0.08		5	52.21	52.28	-0.07
162	9		6	7.2	11.0	7.10	0.58		6	6.5	10.4	6.45	0.07		6	6.52	6.52	0.00
163	10-12		6	50.5	54.1	50.30	0.60		6	49.7	53.7	49.70	0.08		6	49.70	49.78	-0.08
164	12		7	37.2	41.2	37.20	0.60		7	36.4	40.3	36.35	0.07		7	36.60	36.42	+0.18
165	10-12		7	43.5	47.6	43.55	0.60		7	42.9	46.9	42.90	0.07		7	42.95	42.97	-0.02
166	12-13		8	3.7	7.7	3.70	0.61		8	3.1	7.1	3.10	0.07		8	3.09	3.17	-0.08
167	11-12		10	1.7	5.8	1.75	0.61		10	1.3	5.2	1.25	0.06		10	1.14	1.31	-0.17
168	10-12		10	13.3	17.1	13.20	0.61		10	12.7	16.7	12.70	0.06		10	12.59	12.76	-0.17
169	13		10	34.3	.....	34.30	0.63		10	33.6	37.7	33.65	0.05		10	33.67	33.70	-0.03
170	..		10	36.0	39.8	35.90	0.63	.....	.....	.....	.....	.....	.....		10	35.27	.....	.....
171	12		10	45.0	49.0	45.00	0.62		10	44.1	48.3	44.20	0.05		10	44.38	44.25	+0.13
172	12		11	5.9	9.9	5.90	0.63		11	5.2	9.1	5.15	0.05		11	5.27	5.20	+0.07
173	12		11	27.9	31.8	27.85	0.62		11	27.1	31.1	27.10	0.05		11	27.23	27.15	+0.08
174	9		11	44.6	48.8	44.70	0.63		11	44.0	48.0	44.00	0.04		11	44.07	44.04	+0.03
175	11-12		12	0.3	4.4	0.35	0.62		11	59.7	63.8	59.75	0.04		11	59.73	59.79	-0.06
176	12		12	13.4	17.3	13.35	0.63		12	12.7	16.7	12.70	0.04		12	12.72	12.74	-0.02
177	11-12		12	51.8	55.7	51.75	0.64		12	51.2	55.1	51.15	0.03		12	51.11	51.18	-0.07
178	12		13	52.2	56.1	52.15	0.64		13	51.2	55.3	51.25	0.03		13	51.51	51.28	+0.23
179	10-12		14	13.4	17.4	13.40	0.63		14	12.6	16.7	12.65	0.03		14	12.77	12.68	+0.09
180	12-13	17	14	56.5	60.7	56.60	-0.66	17	14	56.0	60.0	56.00	+0.01	17	14	55.94	56.01	-0.07

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 130.	d.	Zone 128.	Zone 130.		
136	+ 6 16	- 0.2	+ 6 11	- 1.1	+ 0 46 9.8	9.9	- 0.1	Moonlight troublesome.
137	10 24	0.3	10 24	1.1	0 50 23.7	22.9	+ 0.8	
138	3 33	0.2	3 33	1.2	0 43 32.8	31.8	+ 1.0	
139	9 20	0.3	9 21	1.2	0 49 19.7	19.8	- 0.1	
140	3 38	0.2	3 40	1.2	0 43 37.8	38.8	- 1.0	
141	7 46	0.3	7 47	1.2	0 47 45.7	45.8	- 0.1	A number of small stars.
142	3 57	0.2	3 56	1.3	0 43 56.8	54.7	+ 2.1	
143	....	...	6 21	1.3	0 46	19.7	...
144	4 29	0.3	4 29	1.3	0 44 28.7	27.7	+ 1.0	
145	10 46	0.4	10 47	1.3	0 50 45.6	45.7	- 0.1	
146	10 59	0.4	10 59	1.3	0 50 58.6	57.7	+ 0.9	Orange-color, yellow.
147	10 31	0.4	10 31	1.3	0 50 30.6	29.7	+ 0.9	
148	2 4	0.3	2 4	1.4	0 42 3.7	2.6	+ 1.1	
149	1 59	0.2	1 58	1.4	0 41 58.8	56.6	+ 2.2	
150	9 0	0.4	....	...	0 48 59.6	....	...
151	8 52	0.4	8 53	1.4	0 48 51.6	51.6	0.0	
152	9 37	0.4	9 38	1.4	0 49 36.6	36.6	0.0	
153	9 51	0.4	9 52	1.4	0 49 50.6	50.6	0.0	
154	3 53	0.3	3 55	1.5	0 43 52.7	53.5	- 0.8	
155	+ 0 41	0.3	+ 0 41	1.5	0 40 40.7	39.5	+ 1.2	
156	- 0 17	0.3	- 0 15	1.5	0 39 43.3	43.5	- 0.2	
157	+ 8 23	0.4	+ 8 24	1.5	0 48 22.6	22.5	+ 0.1	
158	6 21	0.4	6 22	1.6	0 46 20.6	20.4	+ 0.2	
159	1 7	0.3	1 7	1.7	0 41 6.7	5.3	+ 1.4	
160	3 30	0.4	3 30	1.6	0 43 29.6	28.4	+ 1.2	
161	5 13	1.6	0 45	11.4	...	
162	10 39	0.5	10 40	1.6	0 50 38.5	38.4	+ 0.1	
163	4 4	0.4	4 5	1.7	0 44 3.6	3.3	+ 0.3	
164	....	...	7 53	1.7	0 47	51.3	...
165	6 38	0.5	6 40	1.7	0 46 37.5	38.3	- 0.8	
166	6 38	0.5	6 39	1.7	0 46 37.5	37.3	+ 0.2	
167	7 40	0.6	7 41	1.8	0 47 39.4	39.2	+ 0.2	
168	9 38	0.6	9 40	1.8	0 49 37.4	38.2	- 0.8	
169	3 5	0.5	3 8	1.9	0 43 4.5	6.1	- 1.6	
170	3 19	0.5	....	...	0 43 18.5	....	...
171	8 50	0.6	8 50	1.8	0 48 49.4	48.2	+ 1.2	
172	5 12	0.5	5 12	1.9	0 45 11.5	10.1	+ 1.4	
173	9 28	0.6	9 29	1.9	0 49 27.4	27.1	+ 0.3	
174	3 57	0.5	3 57	1.9	0 43 56.5	55.1	+ 1.4	
175	8 35	0.6	8 36	1.9	0 48 34.4	34.1	+ 0.3	
176	9 20	0.6	9 21	1.9	0 49 19.4	19.1	+ 0.3	Comp. n. p. 25", 13th mag.
177	2 18	0.5	2 18	2.0	0 42 17.5	16.0	+ 1.5	
178	8 49	0.7	8 51	2.0	0 48 48.3	49.0	- 0.7	
179	10 9	0.7	10 9	2.0	0 50 8.3	7.0	+ 1.3	
180	+ 1 59	- 0.5	+ 1 59	- 2.1	+ 0 41 58.5	56.9	+ 1.6	

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 128.					ZONE 130.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 128.	Zone 130.			
136	10-11	h. m. s. 16 54 52.1	s. 56.2	s. 52.15	-0.53	h. m. s. 16 54 51.6	s. 55.5	s. 51.55	+0.17	h. m. s. 16 54 51.62	s. 51.72	-0.10		
137	12-13	55 45.7	49.6	45.65	0.52	55 44.8	48.8	44.80	0.16	55 45.13	44.96	+0.17		
138	11-12	56 0.7	4.7	0.70	0.54	56 0.1	4.2	0.15	0.16	56 0.16	0.31	-0.15		
139	10-11	56 58.7	62.6	58.65	0.53	56 58.2	62.1	58.15	0.15	56 58.12	58.30	-0.18		
140	12	57	6.3	2.30	0.54	57	5.9	1.90	0.15	57 1.76	2.05	-0.29		
141	9-10	57 50.1	54.1	50.10	0.54	57 49.6	53.7	49.65	0.14	57 49.56	49.79	-0.23		
142	11-12	58 8.6	12.6	8.60	0.55	58 7.9	12.0	7.95	0.14	58 8.05	8.09	-0.04		
143	12	.....	.....	.....	.....	58 16.0	19.9	15.95	0.14	58	16.09	....	
144	11-12	58 56.0	60.0	56.00	0.55	58 55.5	59.5	55.50	0.13	58 55.45	55.63	-0.18		
145	6-8	59 26.1	29.9	26.00	0.54	59 25.4	29.2	25.30	0.14	59 25.46	25.44	+0.02		
146	11	59 37.2	41.3	37.25	0.55	59	40.5	36.50	0.13	59 36.70	36.63	+0.07		
147	11-10	16 59 49.1	53.0	49.05	0.55	16 59 48.4	52.7	48.55	0.13	16 59 48.50	48.68	-0.18		
148	11	17 0 19.0	23.1	19.05	0.57	17 0 18.5	22.5	18.50	0.12	17 0 18.48	18.62	-0.14		
149	13	0 27.2	31.2	27.20	0.57	0 26.6	30.7	26.65	0.12	0 26.63	26.77	-0.14		
150	13	0 44.6	48.3	44.45	0.56	.....	.....	.....	.....	0 43.89	.....	....
151	12-13	1 19.9	23.9	19.90	0.56	1 19.3	23.3	19.30	0.12	1 19.34	19.42	-0.08		
152	10-11	1 39.4	43.3	39.35	0.56	1 38.9	43.0	38.95	0.12	1 38.79	39.07	-0.28		
153	12	2 1.3	5.1	1.20	0.56	2 0.5	4.7	0.60	0.12	2 0.64	0.72	-0.08		
154	7-9	2 32.0	36.1	32.05	0.58	2 31.5	35.4	31.45	0.11	2 31.47	31.56	-0.09		
155	10-11	2 37.6	41.8	37.70	0.58	2 37.1	41.1	37.10	0.10	2 37.12	37.20	-0.08		
156	6-7	3 4.6	8.6	4.60	0.59	3 4.1	8.1	4.10	0.10	3 4.01	4.20	-0.19		
157	12	3 37.4	41.1	37.25	0.58	3 36.7	40.7	36.70	0.10	3 36.67	36.80	-0.13		
158	12-13	4 34.1	38.1	34.10	0.58	4 33.5	37.4	33.45	0.09	4 33.52	33.54	-0.02		
159	10-12	5 26.5	30.3	26.40	0.60	5 25.8	29.8	25.80	0.08	5 25.80	25.88	-0.08		
160	12-13	5 43.7	47.7	43.70	0.60	5 43.2	47.2	43.20	0.08	5 43.10	43.28	-0.18		
161	11-13	5 52.7	56.9	52.80	0.59	5 52.1	56.3	52.20	0.08	5 52.21	52.28	-0.07		
162	9	6 7.2	11.0	7.10	0.58	6 6.5	10.4	6.45	0.07	6 6.52	6.52	0.00		
163	10-12	6 50.5	54.1	50.30	0.60	6 49.7	53.7	49.70	0.08	6 49.70	49.78	-0.08		
164	12	7 37.2	41.2	37.20	0.60	7 36.4	40.3	36.35	0.07	7 36.60	36.42	+0.18		
165	10-12	7 43.5	47.6	43.55	0.60	7 42.9	46.9	42.90	0.07	7 42.95	42.97	-0.02		
166	12-13	8 3.7	7.7	3.70	0.61	8 3.1	7.1	3.10	0.07	8 3.09	3.17	-0.08		
167	11-12	10 1.7	5.8	1.75	0.61	10 1.3	5.2	1.25	0.06	10 1.14	1.31	-0.17		
168	10-12	10 13.3	17.1	13.20	0.61	10 12.7	16.7	12.70	0.06	10 12.59	12.76	-0.17		
169	13	10 34.3	.....	34.30	0.63	10 33.6	37.7	33.65	0.05	10 33.67	33.70	-0.03	
170	..	10 36.0	39.8	35.90	0.63	.....	.....	.....	.....	10 35.27	.....	....
171	12	10 45.0	49.0	45.00	0.62	10 44.1	48.3	44.20	0.05	10 44.38	44.25	+0.13		
172	12	11 5.9	9.9	5.90	0.63	11 5.2	9.1	5.15	0.05	11 5.27	5.20	+0.07		
173	12	11 27.9	31.8	27.85	0.62	11 27.1	31.1	27.10	0.05	11 27.23	27.15	+0.08		
174	9	11 44.6	48.8	44.70	0.63	11 44.0	48.0	44.00	0.04	11 44.07	44.04	+0.03		
175	11-12	12 0.3	4.4	0.35	0.62	11 59.7	63.8	59.75	0.04	11 59.73	59.79	-0.06		
176	12	12 13.4	17.3	13.35	0.63	12 12.7	16.7	12.70	0.04	12 12.72	12.74	-0.02		
177	11-12	12 51.8	55.7	51.75	0.64	12 51.2	55.1	51.15	0.03	12 51.11	51.18	-0.07		
178	12	13 52.2	56.1	52.15	0.64	13 51.2	55.3	51.25	0.03	13 51.51	51.28	+0.23		
179	10-12	14 13.4	17.4	13.40	0.63	14 12.6	16.7	12.65	0.03	14 12.77	12.68	+0.09		
180	12-13	17 14 56.5	60.7	56.60	-0.66	17 14 56.0	60.0	56.00	+0.01	17 14 55.94	56.01	-0.07		

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 130.	d.	Zone 128.	Zone 130.		
136	+ 6 10	- 0.2	+ 6 11	- 1.1	+ 0 46 9.8	9.9	- 0.1	Moonlight troublesome.
137	10 24	0.3	10 24	1.1	0 50 23.7	22.9	+ 0.8	
138	3 33	0.2	3 33	1.2	0 43 32.8	31.8	+ 1.0	
139	9 20	0.3	9 21	1.2	0 49 19.7	19.8	- 0.1	
140	3 38	0.2	3 40	1.2	0 43 37.8	38.8	- 1.0	
141	7 46	0.3	7 47	1.2	0 47 45.7	45.8	- 0.1	
142	3 57	0.2	3 56	1.3	0 43 56.8	54.7	+ 2.1	
143	....	...	6 21	1.3	0 46	19.7	...
144	4 29	0.3	4 29	1.3	0 44 28.7	27.7	+ 1.0	
145	10 46	0.4	10 47	1.3	0 50 45.6	45.7	- 0.1	
146	10 59	0.4	10 59	1.3	0 50 58.6	57.7	+ 0.9	A number of small stars.
147	10 31	0.4	10 31	1.3	0 50 30.6	29.7	+ 0.9	
148	2 4	0.3	2 4	1.4	0 42 3.7	2.6	+ 1.1	
149	1 59	0.2	1 58	1.4	0 41 58.8	56.6	+ 2.2	
150	9 0	0.4	....	...	0 48 59.6	....	...
151	8 52	0.4	8 53	1.4	0 48 51.6	51.6	0.0	Orange-color, yellow.
152	9 37	0.4	9 38	1.4	0 49 36.6	36.6	0.0	
153	9 51	0.4	9 52	1.4	0 49 50.6	50.6	0.0	
154	3 53	0.3	3 55	1.5	0 43 52.7	53.5	- 0.8	
155	+ 0 41	0.3	+ 0 41	1.5	0 40 40.7	39.5	+ 1.2	
156	- 0 17	0.3	- 0 15	1.5	0 39 43.3	43.5	- 0.2	
157	+ 8 23	0.4	+ 8 24	1.5	0 48 22.6	22.5	+ 0.1	
158	6 21	0.4	6 22	1.6	0 46 20.6	20.4	+ 0.2	
159	1 7	0.3	1 7	1.7	0 41 6.7	5.3	+ 1.4	
160	3 30	0.4	3 30	1.6	0 43 29.6	28.4	+ 1.2	
161	5 13	1.6	0 45	11.4	...	
162	10 39	0.5	10 40	1.6	0 50 38.5	38.4	+ 0.1	
163	4 4	0.4	4 5	1.7	0 44 3.6	3.3	+ 0.3	
164	....	...	7 53	1.7	0 47	51.3	...
165	6 38	0.5	6 40	1.7	0 46 37.5	38.3	- 0.8	
166	6 38	0.5	6 39	1.7	0 46 37.5	37.3	+ 0.2	
167	7 40	0.6	7 41	1.8	0 47 39.4	39.2	+ 0.2	
168	9 38	0.6	9 40	1.8	0 49 37.4	38.2	- 0.8	
169	3 5	0.5	3 8	1.9	0 43 4.5	6.1	- 1.6	
170	3 19	0.5	....	...	0 43 18.5	....	...
171	8 50	0.6	8 50	1.8	0 48 49.4	48.2	+ 1.2	
172	5 12	0.5	5 12	1.9	0 45 11.5	10.1	+ 1.4	
173	9 28	0.6	9 29	1.9	0 49 27.4	27.1	+ 0.3	
174	3 57	0.5	3 57	1.9	0 43 56.5	55.1	+ 1.4	
175	8 35	0.6	8 36	1.9	0 48 34.4	34.1	+ 0.3	
176	9 20	0.6	9 21	1.9	0 49 19.4	19.1	+ 0.3	Comp. n. p. 25'', 13th mag.
177	2 18	0.5	2 18	2.0	0 42 17.5	16.0	+ 1.5	
178	8 49	0.7	8 51	2.0	0 48 48.3	49.0	- 0.7	
179	10 9	0.7	10 9	2.0	0 50 8.3	7.0	+ 1.3	
180	+ 1 59	- 0.5	+ 1 59	- 2.1	+ 0 41 58.5	56.9	+ 1.6	

ZONE OBSERVATIONS.

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. [°]40 to [°]50.

Number of the Star.	Magnitude.	ZONE 128.					ZONE 130.					MEAN RIGHT ASCENSION. 1859.0		Difference.				
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.		Zone 128.	Zone 130.		
		h.	m.	s.	h.	m.		s.	h.	m.	s.	h.			m.	s.	h.	m.	s.
181	12	17	15	7.9	11.9	7.90	-0.65	17	15	7.2	11.3	7.25	+0.01	17	15	7.25	7.26	-0.01
182	12		16	3.2	7.2	3.20	0.67		16	2.6	6.8	2.70	0.00		16	2.53	2.70	-0.17
183	12		16	20.0	24.0	20.00	0.66		16	19.3	23.2	19.25	0.00		16	19.34	19.25	+0.09
184	12		16	41.2	45.0	41.10	0.65		16	40.1	44.2	40.15	+0.01		16	40.45	40.16	+0.29
185	11-12		16	43.1	47.3	43.20	0.66		16	42.6	46.6	42.60	0.00		16	42.54	42.60	-0.06
186	11-12	17	1.0	4.9	0.95	0.66		17	0.3	4.2	0.25	0.00		17	0.29	0.25	+0.04	
187	12-13	18	....	47.8	43.80	0.68		18	43.0	....	43.00	-0.02		18	43.12	42.98	+0.14
188	9-10	18	48.3	52.3	48.30	0.67		18	47.4	51.4	47.40	0.01		18	47.63	47.39	+0.24	
189	12	18	59.8	63.8	59.80	0.68		18	....	63.2	59.20	0.02		18	59.12	59.18	-0.06
190	11	19	8.2	12.1	8.15	0.67		19	7.4	11.4	7.40	0.02		19	7.48	7.38	+0.10	
191	10-12	19	17.4	21.5	17.45	0.67		19	16.8	20.8	16.80	0.02		19	16.78	16.78	0.00	
192	12-13	20	0.9	4.9	0.90	0.68		.....	.....	.....	.....	.....		20	0.22	.....	.....
193	12	20	23.1	27.0	23.05	0.67		.....	.....	.....	.....	.....		20	22.38	.....	.....
194	12	21	5.5	9.6	5.55	0.68		.....	.....	.....	.....	.....		21	4.87	.....	.....
195	12	21	34.6	38.5	34.55	0.70		21	33.9	37.9	33.90	0.04		21	33.85	33.86	-0.01	
196	12	23	2.0	5.9	1.95	0.71		23	1.3	....	1.30	0.05		23	1.24	1.25	-0.01
197	12	23	....	9.1	5.10	0.70		23	4.4	8.4	4.40	0.05		23	4.40	4.35	+0.05
198	12	23	30.6	34.8	30.70	0.70		23	30.1	34.0	30.05	0.05		23	30.00	30.00	0.00	
199	11-12	23	31.6	35.5	31.65	0.70		23	30.8	34.7	30.75	0.05		23	30.85	30.70	+0.15	
200	12	23	32.6	36.4	32.50	0.70		.....	.....	.....	.....	.....		23	31.81	.....	.....
201	11	24	14.2	18.0	14.10	0.70		24	13.3	17.3	13.30	0.05		24	13.40	13.25	+0.15	
202	11-12	24	44.6	48.6	44.60	0.71		24	43.8	48.0	43.90	0.06		24	43.89	43.84	+0.05	
203	12-13	25	17.8	21.7	17.75	0.71		25	17.0	21.0	17.00	0.06		25	17.04	16.94	+0.10	
204	12	25	47.4	....	47.40	0.73		.....	.....	.....	.....	.....		25	46.67	.....	.....
205	12	26	16.1	20.0	16.05	0.72		26	15.2	19.3	15.25	0.07		26	15.33	15.18	+0.15	
206	12-13	17	27	8.0	12.0	8.00	-0.72	17	27	7.1	11.2	7.15	-0.07	17	27	7.28	7.08	+0.20

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 130.	d.	Zone 128.	Zone 130.		
181	+ 3 30	- 0.6	+ 3 30	- 2.1	+ 0 43 29.4	27.9	+ 1.5	
182	0 22	0.5	0 23	2.1	0 40 21.5	20.9	+ 0.6	
183	2 1	0.6	2 2	2.1	0 41 60.4	59.9	+ 0.5	
184	9 40	0.7	9 37	2.1	0 49 39.3	34.9	+ 4.4	
185	6 5	0.7	6 4	2.1	0 46 4.3	1.9	+ 2.4	
186	5 56	0.7	5 53	2.1	0 45 55.3	50.9	+ 4.4	
187	2 35	0.6	2 36	2.2	0 42 34.4	33.8	+ 0.6	
188	5 15	0.7	5 20	2.2	0 45 14.3	17.8	- 3.5	
189	1 26	0.6	....	...	0 41 25.4	....	...
190	6 5	0.7	6 5	2.2	0 46 4.3	2.8	+ 1.5	
191	7 34	0.7	7 30	2.2	0 47 33.3	27.8	+ 5.5	
192	5 49	0.7	....	...	0 45 48.3	....	...
193	9 43	0.8	....	...	0 49 42.2	....	...
194	10 40	0.8	....	...	0 50 39.2	....	...
195	0 30	0.6	0 31	2.4	0 40 29.4	28.6	+ 0.8	
196	1 0	0.7	1 0	2.4	0 40 59.3	57.6	+ 1.7	
197	5 29	0.8	5 30	2.4	0 45 28.2	27.6	+ 0.6	
198	5 39	0.8	....	...	0 45 38.2	....	...
199	4 50	0.8	4 31	2.4	0 44 49.2	28.6	...	
200	3 53	0.7	3 51	2.4	0 43 52.3	48.6	+ 3.7	
201	8 11	0.8	8 12	2.4	0 48 10.2	9.6	+ 0.6	
202	3 34	0.8	3 36	2.5	0 43 33.2	33.5	- 0.3	
203	+ 5 44	0.8	5 47	2.5	0 45 43.2	44.5	- 1.3	
204	- 0 11	0.7	....	...	0 39 48.3	....	...
205	+ 6 19	0.9	6 21	2.5	0 46 18.1	18.5	- 0.4	
206	+ 5 30	- 0.9	+ 5 32	- 2.6	+ 0 45 29.1	29.4	- 0.3	

A.R. ^{h.}15 ^{m.}57 to ^{h.}17 ^{m.}27.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 128.					ZONE 130.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 128.	Zone 130.			
181	12	h. 17 m. 15 s. 7.9	11.9	s. 7.90	-0.65	h. 17 m. 15 s. 7.2	11.3	s. 7.25	+0.01	h. 17 m. 15 s. 7.25	7.26	-0.01		
182	12	16 3.2	7.2	3.20	0.67	16 2.6	6.8	2.70	0.00	16 2.53	2.70	-0.17		
183	12	16 20.0	24.0	20.00	0.66	16 19.3	23.2	19.25	0.00	16 19.34	19.25	+0.09		
184	12	16 41.2	45.0	41.10	0.65	16 40.1	44.2	40.15	+0.01	16 40.45	40.16	+0.29		
185	11-12	16 43.1	47.3	43.20	0.66	16 42.6	46.6	42.60	0.00	16 42.54	42.60	-0.06		
186	11-12	17 1.0	4.9	0.95	0.66	17 0.3	4.2	0.25	0.00	17 0.29	0.25	+0.04		
187	12-13	18	47.8	43.80	0.68	18 43.0	....	43.00	-0.02	18 43.12	42.98	+0.14	
188	9-10	18 48.3	52.3	48.30	0.67	18 47.4	51.4	47.40	0.01	18 47.63	47.39	+0.24		
189	12	18 59.8	63.8	59.80	0.68	18	63.2	59.20	0.02	18 59.12	59.18	-0.06		
190	11	19 8.2	12.1	8.15	0.67	19 7.4	11.4	7.40	0.02	19 7.48	7.38	+0.10		
191	10-12	19 17.4	21.5	17.45	0.67	19 16.8	20.8	16.80	0.02	19 16.78	16.78	0.00		
192	12-13	20 0.9	4.9	0.90	0.68	.....	.....	.....	.....	20 0.22	.....	.....
193	12	20 23.1	27.0	23.05	0.67	.....	.....	.....	.....	20 22.38	.....	.....
194	12	21 5.5	9.6	5.55	0.68	.....	.....	.....	.....	21 4.87	.....	.....
195	12	21 34.6	38.5	34.55	0.70	21 33.9	37.9	33.90	0.04	21 33.85	33.86	-0.01		
196	12	23 2.0	5.9	1.95	0.71	23 1.3	....	1.30	0.05	23 1.24	1.25	-0.01	
197	12	23	9.1	5.10	0.70	23 4.4	8.4	4.40	0.05	23 4.40	4.35	+0.05		
198	12	23 30.6	34.8	30.70	0.70	23 30.1	34.0	30.05	0.05	23 30.00	30.00	0.00		
199	11-12	23 31.6	35.5	31.65	0.70	23 30.8	34.7	30.75	0.05	23 30.85	30.70	+0.15		
200	12	23 32.6	36.4	32.50	0.70	.....	.....	.....	.....	23 31.81	.....	.....
201	11	24 14.2	18.0	14.10	0.70	24 13.3	17.3	13.30	0.05	24 13.40	13.25	+0.15		
202	11-12	24 44.6	48.6	44.60	0.71	24 43.8	48.0	43.90	0.06	24 43.89	43.84	+0.05		
203	12-13	25 17.8	21.7	17.75	0.71	25 17.0	21.0	17.00	0.06	25 17.04	16.94	+0.10		
204	12	25 47.4	....	47.40	0.73	.....	.....	.....	.....	25 46.67	.....	.....
205	12	26 16.1	20.0	16.05	0.72	26 15.2	19.3	15.25	0.07	26 15.33	15.18	+0.15		
206	12-13	17 27 8.0	12.0	8.00	-0.72	17 27 7.1	11.2	7.15	-0.07	17 27 7.28	7.08	+0.20		

h and lower

ZONE OBSERVATIONS.

A.R. $17^{\text{h}} 24^{\text{m}}$ to $18^{\text{h}} 12^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 129.					ZONE 131.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 129.	Zone 131.			
1	11	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
1	11	17 24 14.2	18.0	14.10	-0.77	17 24 13.6	17.6	13.60	-0.14	17 24 13.33	13.46	-0.13		
2	11-12	24 44.6	48.6	44.60	0.78	24 44.1	48.1	44.10	0.14	24 43.82	43.96	-0.14		
3	12-13	25 17.8	21.7	17.75	0.78	25 17.3	21.2	17.25	0.15	25 16.97	17.10	-0.13		
4	12-13	25 47.4	....	47.40	0.80	25 46.9	51.1	47.00	0.15	25 46.60	46.85	-0.25	
5	12	26 16.1	20.0	16.05	0.80	26 15.4	19.5	15.45	0.16	26 15.25	15.29	-0.04		
6	12-13	27 8.0	12.0	8.00	0.79	27 7.3	11.3	7.30	0.16	27 7.21	7.14	+0.07		
7	12-13	.....	.....	.....	.....	27 50.2	54.3	50.25	0.17	27	50.08	....	
8	12	.....	.....	.....	.....	27 52.0	55.9	51.95	0.17	27	51.78	....	
9	13	.....	.....	.....	.....	28 52.8	57.0	52.90	0.18	28	52.72	....	
10	10-11	.....	.....	.....	.....	29 40.7	44.9	40.80	0.19	29	40.61	....	
11	12	.....	.....	.....	.....	29 51.6	55.6	51.60	0.19	29	51.41	....	
12	12	.....	.....	.....	.....	29 53.2	57.1	53.15	0.19	29	52.96	....	
13	9-10	.....	.....	.....	.....	30 22.0	26.0	22.00	0.19	30	21.81	....	
14	10	.....	.....	.....	.....	30 28.9	32.7	28.80	0.19	30	28.61	....	
15	9	.....	.....	.....	.....	30 51.4	55.4	51.40	0.20	30	51.20	....	
16	9-10	.....	.....	.....	.....	32 11.9	15.9	11.90	0.21	32	11.69	....	
17	9-10	.....	.....	.....	.....	32 46.7	50.6	46.65	0.21	32	46.44	....	
18	10-11	.....	.....	.....	.....	33 14.3	18.4	14.35	0.22	33	14.13	....	
19	11	.....	.....	.....	.....	33 25.5	29.5	25.50	0.22	33	25.28	....	
20	11-12	.....	.....	.....	.....	33 28.2	32.3	28.25	0.22	33	28.03	....	
21	12	.....	.....	.....	.....	35 6.2	10.2	6.20	0.24	35	5.96	....	
22	11-12	.....	.....	.....	.....	35 21.1	25.0	21.05	0.24	35	20.81	....	
23	9	.....	.....	.....	.....	35 41.0	45.1	41.05	0.24	35	40.81	....	
24	12	.....	.....	.....	.....	36	59.7	55.70	0.25	36	55.45	....	
25	12	.....	.....	.....	.....	37	18.0	14.00	0.26	37	13.74	....	
26	12	.....	.....	.....	.....	37 25.9	29.9	25.90	0.26	37	25.64	....	
27	12	38 49.0	53.1	49.05	0.86	38 48.6	....	48.60	0.27	38 48.19	48.33	-0.14	
28	11	39 0.9	5.0	0.95	0.87	.....	.....	.....	.....	39 0.08	....	....
29	11	39 33.9	37.9	33.90	0.87	39 33.2	37.2	33.20	0.28	39 33.03	32.92	+0.11		
30	11-12	39 55.1	59.0	55.05	0.88	.....	.....	.....	.....	39 54.17	....	....
31	11-12	39 55.7	59.7	55.70	0.87	39	59.0	55.00	0.28	39 54.83	54.72	+0.11		
32	12-13	40 56.3	60.3	56.30	0.87	40 55.8	59.8	55.80	0.29	40 55.43	55.51	-0.08		
33	12	41 10.2	14.3	10.25	0.87	41 9.9	13.9	9.90	0.29	41 9.38	9.61	-0.23		
34	9-10	41 24.7	28.7	24.70	0.88	41 24.2	28.1	24.15	0.29	41 23.82	23.86	-0.04		
35	12-11	41 52.8	56.9	52.85	0.89	41 52.3	56.4	52.35	0.30	41 51.96	52.05	-0.09		
36	10	42 4.2	8.3	4.25	0.88	42 3.7	7.7	3.70	0.30	42 3.37	3.40	-0.03		
37	11-12	42 35.3	39.3	35.30	0.89	42 34.7	38.9	34.80	0.30	42 34.41	34.50	-0.09		
38	12-13	42 50.0	53.9	49.95	0.88	42 49.3	53.3	49.30	0.30	42 49.07	49.00	+0.07		
39	11	43 45.4	49.3	45.35	0.90	43 44.9	48.8	44.85	0.31	43 44.45	44.54	-0.09		
40	11-12	44 8.5	12.6	8.55	0.90	44 8.6	12.1	8.35	0.32	44 7.65	8.03	-0.38		
41	12	44 19.9	24.0	19.95	0.90	44 19.4	23.7	19.55	0.32	44 19.05	19.23	-0.18		
42	..	44 20.4	24.6	20.50	0.89	.....	.....	.....	.....	44 19.61	....	....
43	12	44 31.6	35.6	31.60	0.90	.....	.....	.....	.....	44 30.70	....	....
44	12	44 44.0	48.0	44.00	0.90	44 43.4	47.4	43.40	0.32	44 43.10	43.08	+0.02		
45	12-13	17 46 32.3	36.3	32.30	-0.92	17 46 31.8	35.8	31.80	-0.34	17 46 31.38	31.46	-0.08		

A.R. ^{h.}17 ^{m.}24 to ^{h.}18 ^{m.}12.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 129.	d.	Zone 131.	d.	Zone 129.	Zone 131.		
1	+ 8 11	- 0.1	+ 8 10	- 0.4	+ 0 48 10.9	9.6	+ 1.3	Many stars of the 18th and lower magnitudes.
2	3 34	0.0	3 32	0.6	0 43 34.0	31.4	+ 2.6	
3	+ 5 44	0.1	+ 5 43	0.5	0 45 43.9	42.5	+ 1.4	
4	- 0 11	0.0	- 0 11	0.7	0 39 49.0	48.3	+ 0.7	
5	+ 6 19	0.2	+ 6 17	0.6	0 46 18.8	16.4	+ 2.4	
6	5 30	0.2	5 29	0.6	0 45 29.8	28.4	+ 1.4	
7	....	...	4 58	0.7	0 44	57.3	...
8	....	...	1 32	0.8	0 41	31.2	...
9	....	...	1 55	0.8	0 41	54.2	...
10	....	...	5 57	0.8	0 45	56.2	...
11	6 36	0.8	0 46	35.2	...	Doubtful.
12	....	...	6 26	0.8	0 46	25.2	...
13	....	...	10 31	0.7	0 50	30.3	...
14	....	...	1 38	0.9	0 41	37.1	...
15	....	...	3 8	0.9	0 43	7.1	...
16	....	...	2 31	1.0	0 42	30.1	...
17	....	...	10 22	0.8	0 50	21.2	...
18	....	...	2 2	1.0	0 42	1.0	...
19	....	...	1 12	1.0	0 41	11.0	...
20	....	...	+ 2 20	1.0	0 42	19.0	...
21	- 0 2	1.2	0 39	56.8	...	Doubtful.
22	....	...	+ 2 17	1.1	0 42	15.9	...
23	....	...	2 59	1.1	0 42	57.8	...
24	....	...	9 21	1.1	0 49	19.9	...
25	....	...	9 5	1.1	0 49	3.9	...
26	....	...	4 54	1.2	0 44	52.8	...
27	....	...	5 38	1.3	.....	.....	...
28	3 38	1.1	3 46	1.3	0 43 36.9	47.3	-10.4	
29	4 12	1.2	4 11	1.3	0 44 10.8	9.7	+ 1.1	
30	6 51	1.1	0 51	1.4	0 40 49.9	49.6	+ 0.3	
31	3 57	1.2	3 54	1.3	0 43 55.8	52.7	+ 3.1	Doubtful.
32	5 30	1.3	5 28	1.3	0 45 28.7	26.7	+ 2.0	
33	8 31	1.4	8 29	1.3	0 48 29.6	27.7	+ 1.9	
34	6 14	1.3	6 14	1.3	0 46 12.7	12.7	0.0	
35	1 14	1.3	1 12	1.5	0 41 12.7	10.5	+ 2.2	
36	8 10	1.4	8 9	1.3	0 48 8.6	7.7	+ 0.9	
37	1 49	1.3	1 47	1.5	0 41 47.7	45.5	+ 2.2	
38	8 27	1.5	8 23	1.4	0 48 25.5	21.6	+ 3.9	
39	1 50	1.4	1 48	1.5	0 41 48.6	46.5	+ 2.1	
40	4 21	1.5	4 19	1.5	0 44 19.5	17.5	+ 2.0	
41	3 37	1.5	0 43 35.5	Doubtful.
42	10 1	1.6	....	...	0 49 59.4	....	...
43	5 12	1.6	....	...	0 45 10.4	....	...
44	3 25	1.5	3 22	1.6	0 43 23.5	20.4	+ 3.1	
45	+ 0 44	- 1.6	+ 0 45	- 1.7	+ 0 40 42.4	43.3	- 0.9	

ZONE OBSERVATIONS.

A.R. ^{h.}17 ^{m.}24 to ^{h.}18 ^{m.}12.Dec. +^o40' to ^o50'.

Number of the Star.	Magnitude.	ZONE 129.					ZONE 131.					MEAN RIGHT ASCENSION 1859.0			Difference.
		First Wire		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 129.		Zone 131.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	
46	9-11	17 46 46.6	50.9	46.75	-0.91		17 46 54.5	58.5	54.50	-0.34		17 46 45.84	.....	.....
47	8-9	46 55.0	58.9	54.95	0.91		47 21.5	25.3	21.40	0.35		46 54.04	54.16	-0.12	
48	11-12	47 22.0	25.8	21.90	0.91		47 22.0	25.8	21.90	0.35		47 20.99	21.05	-0.06	
49	11-12	47 22.6	26.3	22.45	0.92		47 22.0	25.8	21.90	0.35		47 21.53	21.55	-0.02	
50	9	48 10.9	14.9	10.90	0.93		48 10.2	14.2	10.20	0.35		48 9.97	9.85	+0.12	
51	12	48 18.1	22.1	18.10	0.93		48 17.5	21.5	17.50	0.35		48 17.17	17.15	+0.02	
52	13	48 30.1	33.8	29.95	0.92		.....	.....	.....	.....		48 29.03	.....	.....
53	12	48 56.0	60.1	56.05	0.92		48 55.6	59.4	55.50	0.36		48 55.13	55.14	-0.01	
54	10	49 7.9	.....	7.90	0.92		.....	.....	.....	.....		49 6.98	.....	.....
55	4-6	49 8.3	12.1	8.20	0.93		49 7.6	11.6	7.60	0.36		49 7.27	7.24	+0.03	
56	11	51 27.0	31.0	27.00	0.93		51 26.5	30.4	26.45	0.38		51 26.07	26.07	0.00	
57	11-12	51 52.8	56.6	52.70	0.94		51 52.5	56.5	52.50	0.39		51 51.76	52.11	-0.35	
58	12	51 53.3	57.2	53.25	0.95		51 53.0	56.8	52.90	0.39		51 52.30	52.51	-0.21	
59	12	52 9.3	13.2	9.25	0.93		52 8.6	12.7	8.65	0.39		52 8.32	8.26	+0.06	
60	12	52 25.9	.....	25.90	0.96		.....	.....	.....	.....		52 24.94	.....	.....
61	12-13	52 33.2	37.3	33.25	0.95		.....	.....	.....	.....		52 32.30	.....	.....
62	11-12	53 49.0	52.9	48.95	0.95		53 48.3	.....	48.30	0.41		53 48.00	47.89	+0.11	
63	11-12	53 57.0	60.9	56.95	0.96		53 56.4	60.4	56.40	0.41		53 55.99	55.99	0.00	
64	12-13	54 2.5	6.6	2.55	0.96		54 2.0	6.0	2.00	0.41		54 1.59	1.59	0.00	
65	11-12	54 33.8	37.9	33.85	0.95		54 33.3	37.5	33.40	0.42		54 32.90	32.98	-0.08	
66	12	54 39.6	43.5	39.55	0.97		54 38.9	43.0	38.95	0.42		54 38.58	38.53	+0.05	
67	12-13	54 44.9	49.0	44.95	0.96		54 44.3	48.4	44.35	0.42		54 43.99	43.93	+0.06	
68	12	55 30.1	34.1	30.10	0.96		55 29.6	33.6	29.60	0.42		55 29.14	29.18	-0.04	
69	12	55 33.3	37.3	33.30	0.97		55 32.7	37.0	32.85	0.43		55 32.33	32.42	-0.09	
70	12-13	55 48.1	52.0	48.05	0.96		55 47.3	51.3	47.30	0.43		55 47.09	46.87	+0.22	
71	11-12	56 6.3	10.2	6.25	0.97		56 5.7	9.7	5.70	0.43		56 5.28	5.27	+0.01	
72	11-12	56 16.6	20.8	16.70	0.97		56 16.0	20.0	16.00	0.43		56 15.73	15.57	+0.16	
73	11-12	56 29.7	33.6	29.65	0.98		56 29.0	33.0	29.00	0.43		56 28.67	28.57	+0.10	
74	11-12	56 49.1	53.3	49.20	0.97		56 48.6	52.7	48.65	0.44		56 48.23	48.21	+0.02	
75	12	56 57.4	53.40	0.97			.....	.....	.....	.....		56 52.43	.....	.....
76	9-10	57 33.9	37.9	33.90	0.97		57 33.3	37.3	33.30	0.45		57 32.93	32.85	+0.08	
77	11-12	57 45.3	49.1	45.20	0.97		57 44.7	48.7	44.70	0.45		57 44.23	44.25	-0.02	
78	11	58 24.8	28.6	24.70	0.97		58 24.0	28.1	24.05	0.45		58 23.73	23.60	+0.13	
79	11-12	58 32.3	36.2	32.25	0.97		58 32.0	35.8	31.80	0.45		58 31.28	31.35	-0.07	
80	12-13	59 4.0	8.0	4.00	0.98		59 3.3	7.4	3.35	0.46		59 3.02	2.89	+0.13	
81	12	17 59 40.5	44.2	40.35	0.99		17 59 39.7	43.8	39.75	0.47		17 59 39.36	39.28	+0.08	
82	11	18 0 1.1	5.1	1.10	0.98		18 0 0.5	4.5	0.50	0.47		18 0 0.12	0.03	+0.09	
83	12	0 22.1	26.3	22.20	1.00		0 21.7	25.8	21.75	0.47		0 21.20	21.28	-0.08	
84	12	0 25.0	28.8	24.90	1.00		0 24.5	28.4	24.45	0.47		0 23.90	23.98	-0.08	
85	12-13	1 14.3	18.3	14.30	1.01		.....	.....	.....	.....		1 13.29	.....	.....
86	11-12	1 21.6	25.9	21.75	1.01		1 21.1	25.1	21.10	0.48		1 20.74	20.62	+0.12	
87	10-11	1 26.5	30.7	26.60	1.01		1 26.0	30.2	26.10	0.48		1 25.59	25.62	-0.03	
88	12	1 49.4	53.6	49.50	1.01		1 49.0	53.0	49.00	0.49		1 48.49	48.51	-0.02	
89	11-12	2 16.9	20.9	16.90	1.00		18 2 16.3	20.4	16.35	-0.49		2 15.90	15.86	+0.04	
90	12	18 2 25.0	21.00	-1.00			.....	.....	.....	.....		18 2 20.00	.....	.....

A.R. ^{h.}17 ^{m.}24 to ^{h.}18 ^{m.}12Dec. $\pm 0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 129.	d.	Zone 131.	d.	Zone 129.	Zone 131.		
46	.....	...	.....	...	.....	.....	...
47	+ 4 3	- 1.7	+ 3 59	- 1.7	+ 0 43 61.3	57.3	+ 4.0	
48	2 22	1.7	2 21	1.7	0 42 20.3	19.3	+ 1.0	
49	4 8	1.8	4 4	1.7	0 44 6.2	2.3	+ 3.9	
50	1 47	1.8	1 44	1.8	0 41 45.2	42.2	+ 3.0	
51	0 3	1.8	0 1	1.8	0 39 61.2	59.2	+ 2.0	
52	3 29	1.8	.....	...	0 43 27.2	.....	...
53	5 59	1.9	5 46	1.7	0 45 57.1	44.3	...	
54	7 18	2.0	.....	...	0 47 16.0	.....	...
55	1 34	1.8	1 44	1.8	0 41 32.2	42.2	...	
56	9 16	2.2	9 14	1.8	0 49 13.8	12.2	+ 1.6	
57	3 35	2.1	3 33	1.9	0 43 32.9	31.1	+ 1.8	
58	1 13	2.1	1 12	2.0	0 41 10.9	10.0	+ 0.9	
59	+ 9 49	2.2	9 46	1.8	0 49 46.8	44.2	+ 2.6	
60	- 0 17	2.1	.....	...	0 39 40.9	.....	...
61	+ 1 20	2.1	.....	...	0 41 17.9	.....	...
62	4 44	2.3	4 42	2.0	0 44 41.7	40.0	+ 1.7	
63	2 27	2.2	2 15	2.0	0 42 24.8	13.0	...	
64	4 25	2.3	4 23	2.0	0 44 22.7	21.0	+ 1.7	
65	7 6	2.4	7 3	1.9	0 47 3.6	1.1	+ 2.5	
66	1 16	2.3	1 14	2.1	0 41 13.7	11.9	+ 1.8	
67	4 48	2.3	4 45	2.0	0 44 45.7	43.0	+ 2.7	
68	4 30	2.4	4 27	2.0	0 44 27.6	25.0	+ 2.0	
69	0 57	2.3	0 55	2.1	0 40 54.7	52.9	+ 1.8	
70	8 4	2.5	8 1	2.0	0 48 1.5	59.0	+ 2.5	
71	4 53	2.4	4 51	2.0	0 44 50.6	49.0	+ 1.6	
72	4 48	2.4	4 42	2.1	0 44 45.6	39.9	+ 5.7	
73	0 22	2.4	0 20	2.2	0 40 19.6	17.8	+ 1.8	
74	7 38	2.5	7 36	2.0	0 47 35.5	34.0	+ 1.5	
75	3 51	2.5	.....	...	0 43 48.5	.....	...
76	10 28	2.6	10 25	2.0	0 50 25.4	23.0	+ 2.4	
77	7 39	2.6	7 37	2.1	0 47 36.4	34.9	+ 1.5	
78	9 57	2.7	9 53	2.0	0 49 54.3	51.0	+ 3.3	Comp. 5" s. f.
79	8 35	2.7	8 28	2.1	0 48 32.3	25.9	+ 6.4	
80	6 40	2.7	6 47	2.1	0 46 37.3	44.9	- 7.6	Touched the instrument.
81	3 41	2.7	3 41	2.2	0 43 38.3	38.8	- 0.5	
82	8 2	2.8	8 3	2.1	0 47 59.2	60.9	- 1.7	
83	2 9	2.7	2 8	2.3	0 42 6.3	5.7	+ 0.6	
84	1 19	2.7	+ 1 18	2.3	0 41 16.3	15.7	+ 0.6	
85	+ 1 10	2.7	.....	...	0 41 7.3	.....	...
86	- 0 11	2.7	- 0 12	2.4	0 39 46.3	45.6	+ 0.7	
87	+ 2 3	2.8	+ 1 58	2.3	0 41 60.2	55.7	+ 4.5	
88	0 48	2.8	0 48	2.4	0 40 45.2	45.6	- 0.4	
89	7 9	2.9	+ 7 8	- 2.3	0 47 6.1	5.7	+ 0.4	
90	+ 9 50	- 3.0	.....	...	+ 0 49 47.0	.....	...

ZONE OBSERVATIONS.

A.R. ^{h.}17 ^{m.}24 to ^{h.}18 ^{m.}12.Dec. +⁰40' to ⁰50'.

Number of the Star.	Magnitude.	ZONE 129.					ZONE 131.					MEAN RIGHT ASCENSION. 1859.0					Difference.	
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 129.		Zone 131.				
		h.	m.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.	s.	s.			
91	10	18	2	31.1	35.2	31.15	-1.00	18	2	30.6	34.7	30.65	-0.49	18	2	30.15	30.16	-0.01
92	12		2	40.4	44.5	40.45	1.00		2	40.0	44.0	40.00	0.50		2	39.45	39.50	-0.05
93	12		3	11.7	....	11.70	1.02		3	11.1	15.2	11.15	0.50		3	10.68	10.65	+0.03
94	9-10		3	16.0	19.9	15.95	1.01		3	....	19.3	15.30	0.50		3	14.94	14.80	+0.14
95	11-12		3	48.0	52.0	48.00	1.01		3	47.6	51.5	47.55	0.51		3	46.99	47.04	-0.05
96	11-12		3	48.3	52.3	48.30	1.01		3	47.9	51.9	47.90	0.51		3	47.29	47.39	-0.10
97	10-11		4	32.5	36.5	32.50	1.03		4	31.9	35.9	31.90	0.51		4	31.47	31.39	+0.08
98	12		5	48.7	52.5	48.60	1.04		5	48.2	52.1	48.15	0.52		5	47.56	47.63	-0.07
99	12-13		7	16.0	19.9	15.95	1.04		7	15.3	19.4	15.35	0.54		7	14.91	14.81	+0.10
100	12-13		7	21.4	25.5	21.45	1.05		7	21.0	25.0	21.00	0.54		7	20.40	20.46	-0.06
101	12-13		8	6.3	....	6.30	1.05		8	5.7	9.7	5.70	0.54		8	5.25	5.16	+0.09
102	11-12		8	15.7	19.8	15.75	1.06		8	15.3	19.2	15.25	0.54		8	14.69	14.71	-0.02
103	12		8	21.6	....	21.60	1.06		8	21.2	25.1	21.15	0.55		8	20.54	20.60	-0.06
104	12		10	5.1	9.1	5.10	1.07		10	4.5	8.7	4.60	0.56		10	4.03	4.04	-0.01
105	9-10		10	57.2	61.3	57.25	1.06		10	56.9	60.7	56.80	0.57		10	56.19	56.23	-0.04
106	8-10		11	29.5	33.4	29.45	1.07		11	29.0	32.9	28.95	0.57		11	28.38	28.38	0.00
107	11		11	30.2	34.3	30.25	1.06		11	....	33.8	29.80	0.57		11	29.19	29.23	-0.04
108	10-11		12	14.9	18.9	14.90	1.08		12	14.4	18.3	14.35	0.58		12	13.82	13.77	+0.05
109	8	18	12	16.0	20.0	16.00	-1.07		12	15.5	19.4	15.45	0.58	18	12	14.93	14.87	+0.06
110	..		.....	....	.....	....		18	12	54.1	58.3	54.20	-0.59		.....	.....	....

A.R. ^{h.}17 ^{m.}24 to ^{h.}18 ^{m.}12.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 129.	d.	Zone 131.	d.	Zone 129.	Zone 131.		
91	+ 8 11	- 3.0	+ 8 7	- 2.2	+ 0 48 8.0	4.8	+ 3.2	
92	8 21	3.0	8 19	2.3	0 48 18.0	16.7	+ 1.3	
93	1 21	2.9	1 18	2.4	0 41 18.1	15.6	+ 2.5	
94	6 26	3.0	6 26	2.3	0 46 23.0	23.7	- 0.7	
95	9 40	3.1	9 38	2.3	0 49 36.9	35.7	+ 1.2	
96	9 7	3.1	9 4	2.3	0 49 3.9	1.7	+ 2.2	
97	7 9	3.1	7 7	2.4	0 47 5.9	4.6	+ 1.3	
98	2 59	3.1	2 57	2.5	0 42 55.9	54.5	+ 1.4	
99	3 12	3.2	3 11	2.6	0 43 8.8	8.4	+ 0.4	
100	2 40	3.2	2 37	2.6	0 42 36.8	34.4	+ 2.4	
101	3 30	3.3	3 31	2.6	0 43 26.7	28.4	- 1.7	
102	1 56	3.3	1 53	2.7	0 41 52.7	50.3	+ 2.4	
103	0 35	3.3	0 34	2.7	0 40 31.7	31.3	+ 1.4	
104	2 47	3.5	2 46	2.7	0 42 43.5	43.3	+ 0.2	
105	8 24	3.6	8 22	2.7	0 48 20.4	19.3	+ 1.1	
106	2 13	3.5	2 13	2.8	0 42 9.5	10.2	- 0.7	
107	....	...	10 40	2.6	0 50 ....	....	...
108	0 31	3.6	0 21	2.9	0 40 27.4	18.1	+ 9.3	
109	+ 7 30	- 3.7	7 20	2.7	0 47 26.3	17.3	+ 9.0	
110	....	...	+ 5 0	- 2.8	+ 0 44 ....	....	...

ZONE OBSERVATIONS.

A.R. $16^{\text{h}} 0^{\text{m}}$ to $18^{\text{h}} 20^{\text{m}}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number of the Star.	Magnitude.	ZONE 132.						ZONE 133.						MEAN RIGHT ASCENSION. 1859.0				Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 132.		Zone 133.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.		s.
1	12	16	0	13.7	17.8	13.75	+0.61	16	0	13.5	17.4	13.45	+0.90	16	0	14.36	14.35	+0.01	
2	11-12		0	46.4	50.5	46.45	0.61		0	....	50.2	46.20	0.90		0	47.06	47.10	-0.04
3	9-10		1	20.0	24.0	20.00	0.61		1	19.7	23.7	19.70	0.90		1	20.61	20.60	+0.01	
4	12		1	22.6	26.5	22.55	0.60		1	22.2	26.3	22.25	0.89		1	23.15	23.14	+0.01	
5	12		2	37.6	41.6	37.60	0.60		2	37.3	41.4	37.35	0.89		2	38.20	38.24	-0.04	
6	12-13		3	16.0	19.9	15.95	0.59		3	15.6	19.7	15.65	0.88		3	16.54	16.53	+0.01	
7	10-11		3	21.2	25.2	21.20	0.59		3	21.2	24.9	21.05	0.88		3	21.79	21.93	-0.14	
8	12		3	43.6	47.6	43.60	0.59		3	43.3	47.2	43.25	0.88		3	44.19	44.13	+0.06	
9	12		4	20.6	24.7	20.65	0.58		4	20.4	24.3	20.35	0.88		4	21.23	21.23	0.00	
10	12		4	26.1	30.1	26.10	0.58		4	25.8	29.9	25.85	0.88		4	26.68	26.73	-0.05	
11	11-12		4	31.0	35.0	31.00	0.58		4	30.9	34.8	30.85	0.88		4	31.58	31.73	-0.15	
12	9-10		5	8.3	12.4	8.35	0.59		5	8.1	12.2	8.15	0.88		5	8.94	9.03	-0.09	
13	12		5	23.3	27.4	23.35	0.58		5	23.2	27.2	23.20	0.87		5	23.93	24.07	-0.14	
14	9-10		5	50.4	54.5	50.45	0.58		5	50.1	54.1	50.10	0.88		5	51.03	50.98	+0.05	
15	9		6	26.4	30.3	26.35	0.58		6	26.3	30.2	26.25	0.87		6	26.93	27.12	-0.19	
16	9		7	4.2	8.1	4.15	0.56		.....	.....	.....	.....		7	4.71	.....	.....
17	11-12		7	31.8	35.8	31.80	0.56		.....	.....	.....	.....		7	32.36	.....	.....
18	12-13		7	58.8	62.8	58.80	0.56		.....	.....	.....	.....		7	59.36	.....	.....
19	12-13		8	49.8	53.9	49.85	0.56		.....	.....	.....	.....		8	50.41	.....	.....
20	9		9	42.4	46.4	42.40	0.55		9	42.1	46.1	42.10	0.85		9	42.95	42.95	0.00	
21	9		11	18.1	22.1	18.10	0.53		11	17.8	21.9	17.85	0.83		11	18.63	18.68	-0.05	
22	11-12		11	25.6	29.6	25.60	0.54		11	25.2	29.1	25.15	0.84		11	26.14	25.99	+0.15	
23	12-13		12	1.7	5.8	1.75	0.53		12	1.2	5.3	1.25	0.83		12	2.28	2.08	+0.20	
24	8		13	53.8	57.8	53.80	0.52		13	53.4	57.4	53.40	0.82		13	54.32	54.22	+0.10	
25	8-9		14	38.3	42.3	38.30	0.51		14	38.0	42.0	38.00	0.81		14	38.81	38.81	0.00	
26	8		15	1.1	5.1	1.10	0.51		15	0.7	4.8	0.75	0.81		15	1.61	1.56	+0.05	
27	12		15	52.7	56.8	52.75	0.50		15	52.5	56.5	52.50	0.80		15	53.25	53.30	-0.05	
28	10-11		17	11.5	15.4	11.45	0.49		17	11.2	15.1	11.15	0.79		17	11.94	11.94	0.00	
29	12		17	49.1	53.1	49.10	0.49		17	48.8	52.7	48.75	0.79		17	49.59	49.54	+0.05	
30	12		17	56.8	60.8	56.80	0.49		17	56.6	60.4	56.50	0.79		17	57.29	57.29	0.00	
31	12		18	28.9	32.9	28.90	0.49		18	28.4	32.5	28.45	0.79		18	29.39	29.24	+0.15	
32	12		18	54.9	58.8	54.85	0.49		18	54.5	58.4	54.45	0.79		18	55.34	55.24	+0.10	
33	12		18	56.0	60.0	56.00	0.48		18	55.7	59.7	55.70	0.78		18	56.48	56.48	0.00	
34	12-13		19	20.0	23.9	19.95	0.48		19	19.6	23.8	19.70	0.78		19	20.43	20.48	-0.05	
35	12		19	33.3	37.3	33.30	0.48		19	33.0	36.9	32.95	0.78		19	33.78	33.73	+0.05	
36	11-12		20	28.1	....	28.10	0.48		20	....	31.7	27.70	0.78		20	28.58	28.48	+0.10
37	12		20	36.3	40.1	36.20	0.47		20	35.8	40.0	35.90	0.78		20	36.67	36.68	-0.01	
38	11-13		20	38.1	41.9	38.00	0.47		20	37.8	41.8	37.80	0.77		20	38.47	38.57	-0.10	
39	6		21	22.7	26.4	22.55	0.47		21	22.2	26.1	22.15	0.77		21	23.02	22.92	+0.10	
40	11-12		22	43.6	47.5	43.55	0.46		22	43.3	47.2	43.25	0.76		22	44.01	44.01	0.00	
41	11		22	51.2	55.3	51.25	0.46		22	50.8	54.8	50.80	0.76		22	51.71	51.56	+0.15	
42	9		25	31.9	35.8	31.85	0.43		25	31.5	35.6	31.55	0.75		25	32.28	32.30	-0.02	
43	9-10		25	51.9	56.0	51.95	0.43		25	51.6	55.7	51.65	0.74		25	52.38	52.39	-0.01	
44	9-10		26	13.6	17.7	13.65	0.42		26	13.3	17.2	13.25	0.74		26	14.07	13.99	+0.08	
45	12	16	27	18.5	22.6	18.55	+0.42		16	27	18.3	22.3	18.30	+0.74	16	27	18.97	19.04	-0.07

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}30Dec. +⁰50 to ⁰10.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 132.	d.	Zone 133.	d.	Zone 132.	Zone 133.		
1	+ 0 22	+ 4.4	+ 0 21	+ 5.8	+ 0 50 26.4	26.8	- 0.4	Comp., 17" s. f., 14th mag.
2	6 57	4.5	6 56	5.8	0 57 1.5	1.8	- 0.3	
3	8 4	4.4	8 3	5.8	0 58 8.4	8.8	- 0.4	
4	0 19	4.3	0 18	5.7	0 50 23.3	23.7	- 0.4	
5	8 59	4.3	8 57	5.7	0 59 3.3	2.7	+ 0.6	
6	0 50	4.1	0 48	5.5	0 50 54.1	53.5	+ 0.6	
7	4 15	4.1	4 14	5.5	0 54 19.1	19.5	- 0.4	
8	5 24	4.1	5 23	5.6	0 55 28.1	28.6	- 0.5	
9	3 14	4.0	3 13	5.4	0 53 18.0	18.4	- 0.4	
10	4 32	4.1	4 31	5.5	0 54 36.1	36.5	- 0.4	
11	5 2	4.1	5 2	5.5	0 55 6.1	7.5	+ 0.6	Comp., 17" s. f., 14th mag.
12	6 49	4.0	6 47	5.4	0 56 53.0	52.4	+ 0.6	
13	6 20	4.0	6 18	5.4	0 56 24.0	23.4	+ 0.6	
14	10 42	4.0	10 41	5.5	1 0 46.0	46.5	- 0.5	
15	10 56	4.0	10 53	5.5	1 0 60.0	58.5	+ 1.5	
16	1 28	3.7	1 28	5.1	0 51 31.7	33.1	- 1.4	
17	1 4	3.7	1 4	5.1	0 51 7.7	9.1	- 1.4	
18	3 17	3.7	3 16	5.1	0 53 20.7	21.1	- 0.4	
19	6 44	3.6	6 41	5.1	0 56 47.6	46.1	+ 1.5	
20	8 8	3.6	8 7	5.0	0 58 11.6	12.0	- 0.4	
21	1 52	3.3	1 51	4.7	0 51 55.3	55.7	- 0.4	Yellowish red.
22	10 50	3.5	10 50	4.9	1 0 53.5	54.9	- 1.4	
23	1 36	3.3	1 35	4.6	0 51 39.3	39.6	- 0.3	
24	8 1	3.2	7 59	4.6	0 58 4.2	3.6	+ 0.6	
25	4 21	3.1	4 20	4.4	0 54 24.1	24.4	- 0.3	
26	0 2	3.0	0 1	4.3	0 50 5.0	5.3	- 0.3	Yellow. Yellow.
27	5 35	3.0	5 32	4.3	0 55 38.0	36.3	+ 1.7	
28	2 15	2.8	2 13	4.0	0 52 17.8	17.0	+ 0.8	
29	7 42	2.9	7 41	4.1	0 57 44.9	45.1	- 0.2	
30	7 46	2.8	7 44	4.1	0 57 48.8	48.1	+ 0.7	
31	6 36	2.8	6 35	4.0	0 56 38.8	39.0	- 0.2	Many small stars.
32	10 19	2.8	10 17	4.0	1 0 21.8	21.0	+ 0.8	
33	3 46	2.7	3 45	3.9	0 53 48.7	48.9	- 0.2	
34	5 0	2.7	4 56	3.9	0 54 62.7	59.9	+ 2.8	
35	3 59	2.6	3 57	3.8	0 54 1.6	0.8	+ 0.8	
36	9 27	2.6	9 26	3.8	0 59 29.6	29.8	- 0.2	Yellow. Comp., 17" s. p., 14th mag.
37	9 36	2.6	9 35	3.8	0 59 38.6	38.8	- 0.2	
38	8 42	2.6	8 41	3.8	0 58 44.6	44.8	- 0.2	
39	9 1	2.6	8 59	3.8	0 59 3.6	2.8	+ 0.8	
40	10 19	2.5	10 8	3.6	1 0 21.5	11.6	+ 9.9	
41	8 13	2.4	8 12	3.6	0 58 15.4	15.6	- 0.2	
42	6 26	2.1	6 24	3.3	0 56 28.1	27.3	+ 0.8	
43	5 46	2.1	5 45	3.3	0 55 48.1	48.3	- 0.2	
44	1 32	2.0	1 31	3.1	0 51 34.0	34.1	- 0.1	
45	+ 8 42	+ 2.0	+ 8 41	+ 3.1	+ 0 58 44.0	44.1	- 0.1	

A.R. $16^{\text{h}} 0^{\text{m}}$ to $18^{\text{h}} 20^{\text{m}}$.Dec. $+6^{\circ} 50'$ to $1^{\circ} 0'$.

Number of the Star.	Magnitude.	ZONE 132.					ZONE 133.					MEAN RIGHT ASCENSION. 1859.0					Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 132.				Zone 133.
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.		s.	s.
46	12-13	16	27	49.0	53.1	49.05	+0.42	16	27	48.8	52.9	48.85	+0.73	16	27	49.47	49.58	-0.11
47	12-13		28	25.3	29.1	25.20	0.41	28	24.7	28.8	24.75	0.73		28	25.61	25.48	+0.13	
48	10		29	42.2	46.1	42.15	0.40	29	41.8	45.7	41.75	0.72		29	42.55	42.47	+0.08	
49	10		29	59.4	63.5	59.45	0.40	29	59.1	63.0	59.05	0.72		29	59.85	59.77	+0.08	
50	11-12		30	45.3	....	45.30	0.39	30	44.9	48.9	44.90	0.71		30	45.69	45.61	+0.08
51	10-12		....	....	....	....	....	30	54.4	58.5	54.45	0.71		30	....	55.16	....
52	10-11		30	....	63.2	59.20	0.38	30	59.1	62.9	59.00	0.70		30	59.58	59.70	-0.12
53	11		31	....	43.5	39.50	0.39	31	39.1	43.0	39.05	0.71		31	39.89	39.76	+0.13
54	10-11		32	15.7	19.7	15.70	0.38	32	15.4	19.4	15.40	0.70		32	16.08	16.10	-0.02	
55	10-11		32	33.7	37.7	33.70	0.38	32	33.4	37.4	33.40	0.70		32	34.08	34.10	-0.02	
56	12		32	55.3	59.3	55.30	0.38	32	55.0	58.8	54.90	0.70		32	55.68	55.60	+0.08	
57	12-13		34	23.0	27.0	23.00	0.36	34	22.5	26.5	22.50	0.68		34	23.36	23.18	+0.18	
58	11		35	32.6	36.4	32.50	0.35	35	32.0	36.1	32.05	0.67		35	32.85	32.72	+0.13	
59	11-12		35	34.0	38.1	34.05	0.35	35	33.6	37.7	33.65	0.67		35	34.40	34.32	+0.08	
60	11		35	51.6	55.6	51.60	0.35	35	51.1	55.1	51.10	0.67		35	51.95	51.77	+0.18	
61	11-12		36	17.8	21.8	17.80	0.36	36	17.2	21.1	17.15	0.68		36	18.16	17.83	+0.33	
62	11-12		36	43.1	47.2	43.15	0.35	36	42.8	46.8	42.80	0.67		36	43.50	43.47	+0.03	
63	12		37	33.0	37.0	33.00	0.34	37	32.5	36.6	32.55	0.66		37	33.34	33.21	+0.13	
64	11-12		37	36.2	40.2	36.20	0.34	37	35.8	39.9	35.85	0.66		37	36.54	36.49	+0.05	
65	10-11		37	42.0	46.3	42.15	0.34	37	41.8	45.9	41.85	0.66		37	42.49	42.51	-0.02	
66	12		38	52.2	56.1	52.15	0.33	38	51.9	55.9	51.90	0.65		38	52.48	52.55	-0.07	
67	12-13		38	52.9	56.8	52.85	0.33	38	52.7	56.5	52.60	0.65		38	53.18	53.25	-0.07	
68	9		39	49.4	53.6	49.50	0.33	39	49.3	53.1	49.20	0.65		39	49.83	49.85	-0.02	
69	12-13		39	54.9	58.8	54.85	0.33	39	54.3	58.4	54.35	0.65		39	55.18	55.00	+0.18	
70	12-13		40	25.4	29.5	25.45	0.32	40	25.0	28.9	24.95	0.64		40	25.77	25.59	+0.18	
71	12		41	14.6	18.7	14.65	0.31	41	14.2	18.2	14.20	0.63		41	14.96	14.83	+0.13	
72	9-10		42	13.4	17.3	13.35	0.31	42	13.0	17.0	13.00	0.64		42	13.66	13.64	+0.02	
73	12-13		42	59.8	63.8	59.80	0.31	42	59.5	63.5	59.50	0.63		43	0.01	0.13	-0.12	
74	12		44	7.1	11.2	7.15	0.30	44	6.8	10.9	6.85	0.62		44	7.45	7.47	-0.02	
75	12-13		44	34.3	38.3	34.30	0.30	44	33.9	37.9	33.90	0.62		44	34.60	34.52	+0.08	
76	11		45	14.3	18.3	14.30	0.29	45	13.8	17.9	13.85	0.61		45	14.59	14.46	+0.13	
77	11-12		45	34.7	....	34.70	0.29	45	34.4	....	34.40	0.62		45	34.99	35.02	-0.03
78	12		45	43.2	47.1	43.15	0.29	45	42.8	46.8	42.80	0.62		45	43.44	43.42	+0.02	
79	12		45	47.9	51.9	47.90	0.29	45	48.0	51.4	47.70	0.61		45	48.19	48.31	-0.12	
80	11		46	22.6	26.5	22.55	0.28	46	22.1	26.2	22.15	0.61		46	22.83	22.76	+0.07	
81	10-11		47	51.2	55.1	51.15	0.27	47	50.8	54.9	50.85	0.60		47	51.42	51.45	-0.03	
82	11		47	52.8	56.7	52.85	0.27	47	52.5	56.5	52.50	0.60		47	53.12	53.10	+0.02	
83	10		48	11.9	15.9	11.90	0.27	48	11.6	15.6	11.60	0.60		48	12.17	12.20	-0.03	
84	12		48	27.1	31.1	27.10	0.26	48	26.9	30.9	26.90	0.59		48	27.36	27.49	-0.13	
85	12		48	47.7	51.9	47.80	0.26	48	47.4	51.5	47.45	0.59		48	48.06	48.04	+0.02	
86	10-11		48	59.6	63.6	59.60	0.27	48	59.1	63.1	59.10	0.59		48	59.87	59.69	+0.18	
87	9-10		49	17.6	21.6	17.60	0.26	49	17.2	21.1	17.15	0.59		49	17.86	17.74	+0.12	
88	10-11		49	43.2	47.2	43.20	0.26	49	42.9	47.0	42.95	0.59		49	43.46	43.54	-0.08	
89	12-13		50	....	54.0	50.00	0.25	50	49.7	53.5	49.60	0.58		50	50.25	50.16	+0.07
90	11	16	50	58.3	62.3	58.30	+0.25	16	50	58.0	61.9	57.95	+0.58	16	50	58.55	58.53	+0.02

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.Dec. [°]+0 [']50 to [°]1 [']0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 123.	d.	Zone 122.	Zone 123.		
46	+ 7 33	+ 2.0	+ 7 30	+ 3.1	+ 0 57 35.0	33.1	+ 1.9	Double ?
47	7 6	1.9	7 4	3.1	0 57 7.9	7.1	+ 0.8	
48	10 28	1.8	10 28	3.0	1 0 29.8	31.0	- 1.2	
49	10 8	1.8	10 7	3.0	1 0 9.8	10.0	- 0.2	
50	4 49	1.6	4 49	2.8	0 54 50.6	51.8	- 1.2	
51	6 16	1.6	6 13	2.8	0 56 17.6	15.8	+ 1.8	
52	0 42	1.5	0 41	2.6	0 50 43.5	43.6	- 0.1	
53	11 7	1.7	11 6	2.8	1 1 8.7	8.8	- 0.1	
54	9 7	1.6	9 4	2.7	0 59 8.6	6.7	+ 1.9	
55	6 38	1.5	6 37	2.6	0 56 39.5	39.6	- 0.1	
56	7 17	1.5	7 16	2.6	0 57 18.5	18.6	- 0.1	
57	4 30	1.3	4 30	2.4	0 54 31.3	32.4	- 1.1	
58	3 6	1.2	3 6	2.2	0 53 7.2	8.2	- 1.0	
59	+ 4 0	1.2	+ 3 58	2.2	0 54 1.2	0.2	+ 1.0	
60	- 0 1	1.1	- 0 2	2.0	0 50 0.1	0.0	+ 0.1	
61	+11 2	1.3	+11 5	2.3	1 1 3.3	7.3	- 4.0	
62	4 41	1.1	4 39	2.1	0 54 42.1	41.1	+ 1.0	
63	0 56	0.9	0 56	1.9	0 50 56.9	57.9	- 1.0	
64	0 5	0.9	0 23	1.9	0 50 5.9	24.9	-19.0	
65	4 32	1.0	4 31	2.0	0 54 33.0	33.0	0.0	
66	6 3	0.9	6 2	1.9	0 56 3.9	3.9	0.0	
67	2 15	0.8	2 14	1.8	0 52 15.8	15.8	0.0	
68	8 30	0.9	8 28	1.9	0 58 30.9	29.9	+ 1.0	
69	9 12	0.9	9 12	1.9	0 59 12.9	13.9	- 1.0	
70	5 10	0.8	5 11	1.7	0 55 10.8	12.7	- 1.9	
71	0 21	0.6	0 21	1.5	0 50 21.6	22.5	- 0.9	
72	8 37	0.7	8 35	1.6	0 58 37.7	36.6	+ 1.1	
73	10 33	0.6	10 31	1.6	1 0 33.6	32.6	+ 1.0	
74	6 34	0.5	6 33	1.4	0 56 34.5	34.4	+ 0.1	
75	8 35	0.5	8 33	1.4	0 58 35.5	34.4	+ 1.1	
76	2 42	0.3	2 40	1.2	0 52 42.3	41.2	+ 1.1	Reddish. Many small stars below 13th mag.
77	9 21	0.4	9 21	1.3	0 59 21.4	22.3	- 0.9	
78	10 33	0.4	10 33	1.3	1 0 33.4	34.3	- 0.9	
79	9 8	0.4	9 11	1.3	0 59 8.4	12.3	- 3.9	
80	4 38	0.2	4 38	1.1	0 54 38.2	39.1	- 0.9	
81	5 55	0.1	5 44	1.1	0 55 55.1	45.1	+10.0	
82	9 45	0.2	9 45	1.1	0 59 45.2	46.1	- 0.9	
83	10 34	+ 0.2	10 32	1.1	1 0 34.2	33.1	+ 1.1	
84	3 47	0.0	3 47	0.9	0 53 47.0	47.9	- 0.9	
85	1 7	- 0.1	1 7	0.8	0 51 6.9	7.8	- 0.9	
86	7 49	0.0	7 48	0.9	0 57 49.0	48.9	+ 0.1	Two comp. 13" s. p.
87	4 46	0.0	4 47	0.8	0 54 46.0	47.8	- 1.8	
88	4 27	0.1	4 27	0.8	0 54 26.9	27.8	- 0.9	
89	5 12	0.2	5 11	0.7	0 55 11.8	11.7	+ 0.1	
90	+ 4 58	- 0.2	+ 4 58	+ 0.6	+ 0 54 57.8	58.6	- 0.8	

ZONE OBSERVATIONS.

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.Dec. +^o50 to ^o6.

Number of the Star.	Magnitude.	ZONE 132.				ZONE 133.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 132.	Zone 133.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
46	12-13	16 27 49.0	53.1	49.05	+0.42	16 27 48.8	52.9	48.85	+0.73	16 27 49.47	49.58	-0.11
47	12-13	28 25.3	29.1	25.20	0.41	28 24.7	28.8	24.75	0.73	28 25.61	25.48	+0.13
48	10	29 42.2	46.1	42.15	0.40	29 41.8	45.7	41.75	0.72	29 42.55	42.47	+0.08
49	10	29 59.4	63.5	59.45	0.40	29 59.1	63.0	59.05	0.72	29 59.85	59.77	+0.08
50	11-12	30 45.3	....	45.30	0.39	30 44.9	48.9	44.90	0.71	30 45.69	45.61	+0.08
51	10-12	.....	.....	.....	.....	30 54.4	58.5	54.45	0.71	30	55.16	....
52	10-11	30	63.2	59.20	0.38	30 59.1	62.9	59.00	0.70	30 59.58	59.70	-0.12
53	11	31	43.5	39.50	0.39	31 39.1	43.0	39.05	0.71	31 39.89	39.76	+0.13
54	10-11	32 15.7	19.7	15.70	0.38	32 15.4	19.4	15.40	0.70	32 16.08	16.10	-0.02
55	10-11	32 33.7	37.7	33.70	0.38	32 33.4	37.4	33.40	0.70	32 34.08	34.10	-0.02
56	12	32 55.3	59.3	55.30	0.38	32 55.0	58.8	54.90	0.70	32 55.68	55.60	+0.08
57	12-13	34 23.0	27.0	23.00	0.36	34 22.5	26.5	22.50	0.68	34 23.36	23.18	+0.18
58	11	35 32.6	36.4	32.50	0.35	35 32.0	36.1	32.05	0.67	35 32.85	32.72	+0.13
59	11-12	35 34.0	38.1	34.05	0.35	35 33.6	37.7	33.65	0.67	35 34.40	34.32	+0.08
60	11	35 51.6	55.6	51.60	0.35	35 51.1	55.1	51.10	0.67	35 51.95	51.77	+0.18
61	11-12	36 17.8	21.8	17.80	0.36	36 17.2	21.1	17.15	0.68	36 18.16	17.83	+0.33
62	11-12	36 43.1	47.2	43.15	0.35	36 42.8	46.8	42.80	0.67	36 43.50	43.47	+0.03
63	12	37 33.0	37.0	33.00	0.34	37 32.5	36.6	32.55	0.66	37 33.34	33.21	+0.13
64	11-12	37 36.2	40.2	36.20	0.34	37 35.8	39.9	35.85	0.66	37 36.54	36.49	+0.05
65	10-11	37 42.0	46.3	42.15	0.34	37 41.8	45.9	41.85	0.66	37 42.49	42.51	-0.02
66	12	38 52.2	56.1	52.15	0.33	38 51.9	55.9	51.90	0.65	38 52.48	52.55	-0.07
67	12-13	38 52.9	56.8	52.85	0.33	38 52.7	56.5	52.60	0.65	38 53.18	53.25	-0.07
68	9	39 49.4	53.6	49.50	0.33	39 49.3	53.1	49.20	0.65	39 49.83	49.85	-0.02
69	12-13	39 54.9	58.8	54.85	0.33	39 54.3	58.4	54.35	0.65	39 55.18	55.00	+0.18
70	12-13	40 25.4	29.5	25.45	0.32	40 25.0	28.9	24.95	0.64	40 25.77	25.59	+0.18
71	12	41 14.6	18.7	14.65	0.31	41 14.2	18.2	14.20	0.63	41 14.96	14.83	+0.13
72	9-10	42 13.4	17.3	13.35	0.31	42 13.0	17.0	13.00	0.64	42 13.66	13.64	+0.02
73	12-13	42 59.8	63.8	59.80	0.31	42 59.5	63.5	59.50	0.63	43 0.01	0.13	-0.12
74	12	44 7.1	11.2	7.15	0.30	44 6.8	10.9	6.85	0.62	44 7.45	7.47	-0.02
75	12-13	44 34.3	38.3	34.30	0.30	44 33.9	37.9	33.90	0.62	44 34.60	34.52	+0.08
76	11	45 14.3	18.3	14.30	0.29	45 13.8	17.9	13.85	0.61	45 14.59	14.46	+0.13
77	11-12	45 34.7	....	34.70	0.29	45 34.4	....	34.40	0.62	45 34.99	35.02	-0.03
78	12	45 43.2	47.1	43.15	0.29	45 42.8	46.8	42.80	0.62	45 43.44	43.42	+0.02
79	12	45 47.9	51.9	47.90	0.29	45 48.0	51.4	47.70	0.61	45 48.19	48.31	-0.12
80	11	46 22.6	26.5	22.55	0.28	46 22.1	26.2	22.15	0.61	46 22.83	22.76	+0.07
81	10-11	47 51.2	55.1	51.15	0.27	47 50.8	54.9	50.85	0.60	47 51.42	51.45	-0.03
82	11	47 52.8	56.7	52.85	0.27	47 52.5	56.5	52.50	0.60	47 53.12	53.10	+0.02
83	10	48 11.9	15.9	11.90	0.27	48 11.6	15.6	11.60	0.60	48 12.17	12.20	-0.03
84	12	48 27.1	31.1	27.10	0.26	48 26.9	30.9	26.90	0.59	48 27.36	27.49	-0.13
85	12	48 47.7	51.9	47.80	0.26	48 47.4	51.5	47.45	0.59	48 48.06	48.04	+0.02
86	10-11	48 59.6	63.6	59.60	0.27	48 59.1	63.1	59.10	0.59	48 59.87	59.69	+0.18
87	9-10	49 17.6	21.6	17.60	0.26	49 17.2	21.1	17.15	0.59	49 17.86	17.74	+0.12
88	10-11	49 43.2	47.2	43.20	0.26	49 42.9	47.0	42.95	0.59	49 43.46	43.54	-0.08
89	12-13	50	54.0	50.00	0.25	50 49.7	53.5	49.60	0.58	50 50.25	50.18	+0.07
90	11	16 50 58.3	62.3	58.30	+0.25	16 50 58.0	61.9	57.95	+0.58	16 50 58.55	58.53	+0.02

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.Dec. +⁰50 to ⁱ0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 123.	d.	Zone 122.	Zone 123.		
46	+ 7 33	+ 2.0	+ 7 30	+ 3.1	+ 0 57 35.0	33.1	+ 1.9	Double ?
47	7 6	1.9	7 4	3.1	0 57 7.9	7.1	+ 0.8	
48	10 28	1.8	10 28	3.0	1 0 29.8	31.0	- 1.2	
49	10 8	1.8	10 7	3.0	1 0 9.8	10.0	- 0.2	
50	4 49	1.6	4 49	2.8	0 54 50.6	51.8	- 1.2	
51	6 16	1.6	6 13	2.8	0 56 17.6	15.8	+ 1.8	
52	0 42	1.5	0 41	2.6	0 50 43.5	43.6	- 0.1	
53	11 7	1.7	11 6	2.8	1 1 8.7	8.8	- 0.1	
54	9 7	1.6	9 4	2.7	0 59 8.6	6.7	+ 1.9	
55	6 38	1.5	6 37	2.6	0 56 39.5	39.6	- 0.1	
56	7 17	1.5	7 16	2.6	0 57 18.5	18.6	- 0.1	
57	4 30	1.3	4 30	2.4	0 54 31.3	32.4	- 1.1	
58	3 6	1.2	3 6	2.2	0 53 7.2	8.2	- 1.0	
59	+ 4 0	1.2	+ 3 58	2.2	0 54 1.2	0.2	+ 1.0	
60	- 0 1	1.1	- 0 2	2.0	0 50 0.1	0.0	+ 0.1	
61	+11 2	1.3	+11 5	2.3	1 1 3.3	7.3	- 4.0	
62	4 41	1.1	4 39	2.1	0 54 42.1	41.1	+ 1.0	
63	0 56	0.9	0 56	1.9	0 50 56.9	57.9	- 1.0	
64	0 5	0.9	0 23	1.9	0 50 5.9	24.9	-19.0	
65	4 32	1.0	4 31	2.0	0 54 33.0	33.0	0.0	
66	6 3	0.9	6 2	1.9	0 56 3.9	3.9	0.0	
67	2 15	0.8	2 14	1.8	0 52 15.8	15.8	0.0	
68	8 30	0.9	8 28	1.9	0 58 30.9	29.9	+ 1.0	
69	9 12	0.9	9 12	1.9	0 59 12.9	13.9	- 1.0	
70	5 10	0.8	5 11	1.7	0 55 10.8	12.7	- 1.9	
71	0 21	0.6	0 21	1.5	0 50 21.6	22.5	- 0.9	Reddish.
72	8 37	0.7	8 35	1.6	0 58 37.7	36.6	+ 1.1	
73	10 33	0.6	10 31	1.6	1 0 33.6	32.6	+ 1.0	
74	6 34	0.5	6 33	1.4	0 56 34.5	34.4	+ 0.1	
75	8 35	0.5	8 33	1.4	0 58 35.5	34.4	+ 1.1	
76	2 42	0.3	2 40	1.2	0 52 42.3	41.2	+ 1.1	Many small stars below 13th mag.
77	9 21	0.4	9 21	1.3	0 59 21.4	22.3	- 0.9	
78	10 33	0.4	10 33	1.3	1 0 33.4	34.3	- 0.9	
79	9 8	0.4	9 11	1.3	0 59 8.4	12.3	- 3.9	
80	4 38	0.2	4 38	1.1	0 54 38.2	39.1	- 0.9	
81	5 55	0.1	5 44	1.1	0 55 55.1	45.1	+10.0	
82	9 45	0.2	9 45	1.1	0 59 45.2	46.1	- 0.9	
83	10 34	+ 0.2	10 32	1.1	1 0 34.2	33.1	+ 1.1	
84	3 47	0.0	3 47	0.9	0 53 47.0	47.9	- 0.9	
85	1 7	- 0.1	1 7	0.8	0 51 6.9	7.8	- 0.9	
86	7 49	0.0	7 48	0.9	0 57 49.0	48.9	+ 0.1	Two comp. 13" s. p.
87	4 46	0.0	4 47	0.8	0 54 46.0	47.8	- 1.8	
88	4 27	0.1	4 27	0.8	0 54 26.9	27.8	- 0.9	
89	5 12	0.2	5 11	0.7	0 55 11.8	11.7	+ 0.1	
90	+ 4 58	- 0.2	+ 4 58	+ 0.6	+ 0 54 57.8	58.6	- 0.8	

ZONE OBSERVATIONS.

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 132.						ZONE 133.						MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 132.		Zone 133.		
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	
91	10-11	16	52	22.4	....	22.40	+0.24	16	52	22.1	26.1	22.10	+0.57	16	52	22.64	22.67	-0.03
92	10-11		52	27.1	31.2	27.15	0.23		52	26.8	30.7	26.75	0.57		52	27.38	27.32	+0.06
93	10-11		52	38.0	42.0	38.00	0.23		52	37.7	41.8	37.75	0.57		52	38.23	38.32	-0.09
94	9-10		53	1.1	5.2	1.15	0.23		53	0.8	4.9	0.85	0.56		53	1.38	1.41	-0.09
95	....		.....	.....	.....	.....	....		53	17.6	21.7	17.65	0.57		53	.....	18.22	....
96	12-10		53	38.9	42.9	38.90	0.24		53	38.6	42.4	38.50	0.57		53	39.14	39.07	+0.07
97	11-12		54	7.4	11.5	7.45	0.23		54	7.2	11.4	7.30	0.57		54	7.68	7.87	-0.19
98	11-12		54	10.3	14.3	10.30	0.23		54	10.1	14.1	10.10	0.57		54	10.53	10.67	-0.14
99	12		54	43.0	47.2	43.10	0.23		54	42.8	46.5	42.65	0.56		54	43.33	43.21	+0.12
100	12		55	1.8	....	1.80	0.22		55	1.3	5.2	1.25	0.56		55	2.02	1.81	+0.21
101	10-11		55	5.6	9.6	5.60	0.22		55	5.7	9.1	5.40	0.56		55	5.82	5.96	-0.14
102	11-12		55	37.2	41.2	37.20	0.22		55	36.8	41.0	36.90	0.56		55	37.42	37.46	-0.04
103	10-11		55	....	58.6	54.60	0.21		55	54.4	58.4	54.40	0.55		55	54.81	54.95	-0.14
104	11		56	13.8	....	13.80	0.21		56	13.5	17.5	13.50	0.55		56	14.01	14.05	-0.04
105	10-11		56	22.3	26.3	22.30	0.22		56	22.0	25.8	21.90	0.55		56	22.52	22.45	+0.07
106	10-11		57	14.4	18.5	14.45	0.21		57	14.1	18.1	14.10	0.55		57	14.66	14.65	+0.01
107	10-11		57	55.9	59.9	55.90	0.21		57	55.6	59.5	55.55	0.54		57	56.11	56.09	+0.02
108	7		58	6.0	10.0	6.00	0.20		58	5.6	9.7	5.65	0.54		58	6.20	6.19	+0.01
109	9		58	22.7	26.7	22.70	0.19		58	22.4	26.4	22.40	0.53		58	22.90	22.93	-0.03
110	8-9		59	25.2	29.2	25.20	0.18		59	24.9	28.9	24.90	0.52		59	25.38	25.42	-0.04
111	10-11		59	36.6	40.7	36.65	0.18		59	36.2	40.1	36.15	0.52		59	36.83	36.67	+0.16
112	11-12	16	59	48.4	52.4	48.40	0.18	16	59	48.0	52.2	48.10	0.52	16	59	48.58	48.62	-0.04
113	9-10	17	0	13.8	17.8	13.80	0.18	17	0	13.6	17.7	13.65	0.53	17	0	13.98	14.18	-0.20
114	12-13		0	54.9	....	54.90	0.18		0	54.7	58.5	54.60	0.52		0	55.08	55.12	-0.04
115	11		.....	.....	.....	.....	....		1	45.8	....	45.80	0.51		1	.....	46.31	....
116	12		.....	.....	.....	.....	....		1	49.3	53.4	49.35	0.51		1	.....	49.86	....
117	11-12		2	4.5	8.3	4.40	0.18		2	4.1	8.1	4.10	0.52		2	4.58	4.62	-0.04
118	11		2	7.5	....	7.50	0.18		2	7.2	11.1	7.15	0.52		2	7.68	7.67	+0.01
119	11-12		.....	.....	.....	.....	....		2	56.0	59.9	55.95	0.51		2	.....	56.46	....
120	12		.....	.....	.....	.....	....		3	9.7	13.8	9.75	0.51		3	.....	10.26	....
121	12		.....	.....	.....	.....	....		4	4.8	8.8	4.80	0.50		4	.....	5.30	....
122	10		.....	.....	.....	.....	....		4	....	12.7	8.70	0.49		4	.....	9.19	....
123	12		.....	.....	.....	.....	....		4	17.4	21.3	17.35	0.49		4	.....	17.84	....
124	11-12		.....	.....	.....	.....	....		4	29.7	33.8	29.75	0.49		4	.....	30.24	....
125	12		5	25.2	....	25.20	0.15		5	24.9	29.0	24.95	0.49		5	25.35	25.44	-0.09
126	9		6	6.0	....	6.00	0.14		6	6.0	9.9	5.95	0.48		6	6.14	6.43	-0.29
127	10		.....	.....	.....	.....	....		6	8.9	12.9	8.90	0.48		6	.....	9.38	....
128	12		6	35.8	....	35.80	0.14		6	35.4	39.4	35.40	0.48		6	35.94	35.88	+0.06
129	10-11		.....	.....	.....	.....	....		6	42.8	46.7	42.75	0.48		6	.....	43.23	....
130	11-12		.....	.....	.....	.....	....		7	34.2	38.1	34.15	0.48		7	.....	34.63	....
131	12-13		8	19.8	23.8	19.80	0.12		8	19.6	23.5	19.55	0.46		8	19.92	20.01	-0.09
132	12-13		9	0.0	4.2	0.10	0.12		8	59.8	63.7	59.75	0.46		9	0.22	0.21	+0.01
133	12		9	12.5	16.5	12.50	0.12		9	12.1	16.1	12.10	0.46		9	12.62	12.56	+0.06
134	10		9	42.7	46.8	42.75	0.12		9	42.4	46.4	42.40	0.46		9	42.87	42.86	+0.01
135	10	17	10	4.8	8.8	4.80	+0.12	17	10	4.5	8.4	4.45	+0.46	17	10	4.92	4.91	+0.01

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 182.	d.	Zone 183.	d.	Zone 182.	Zone 183.		
91	+ 3 3	- 0.4	+ 3 3	+ 0.4	+ 0 53 2.6	3.4	- 0.8	Another star, same mag., preceding.
92	1 34	0.4	1 34	0.4	0 51 33.6	34.4	- 0.8	
93	1 37	0.4	1 37	0.4	0 51 36.6	37.4	- 0.8	
94	1 40	0.5	1 39	0.3	0 51 39.5	39.3	+ 0.2	
95	....	...	10 36	0.6	1 0	36.6	...
96	10 34	0.3	10 33	0.5	1 0 33.7	33.5	+ 0.2	
97	10 51	0.4	10 55	0.5	1 0 50.6	55.5	- 4.9	
98	10 50	0.4	10 53	0.5	1 0 49.6	53.5	- 3.9	
99	9 45	0.5	9 45	0.4	0 59 44.5	45.4	- 0.9	
100	9 10	0.5	9 11	0.3	0 59 9.5	11.3	- 1.8	
101	10 26	0.5	10 28	0.3	1 0 25.5	28.3	- 2.8	Yellow.
102	10 58	0.5	10 59	0.3	1 0 57.5	59.3	- 1.8	
103	5 0	0.7	5 0	0.1	0 55 59.3	60.1	- 0.8	
104	6 27	0.7	6 26	0.1	0 56 26.3	26.1	+ 0.2	
105	10 14	0.7	10 13	0.2	1 0 13.3	13.2	+ 0.1	
106	10 25	0.7	10 25	+ 0.1	1 0 24.3	25.1	- 0.8	
107	8 5	0.8	8 5	0.0	0 58 4.2	5.0	- 0.8	
108	4 46	0.9	4 46	- 0.1	0 54 45.1	45.9	- 0.8	
109	1 14	1.0	1 14	0.3	0 51 13.0	13.7	- 0.7	
110	0 42	1.1	0 44	0.4	0 50 40.9	43.6	- 2.7	
111	0 57	1.1	0 55	0.4	0 50 55.9	54.6	+ 1.3	Reddish.
112	0 26	1.2	0 27	0.5	0 50 24.8	36.5	- 1.7	
113	8 55	1.0	8 56	0.3	0 58 54.0	55.7	- 1.7	
114	1 24	1.3	1 22	0.6	0 51 22.7	21.4	+ 1.3	
115	7 35	1.2	7 36	0.5	0 57 33.8	35.5	- 1.7	
116	7 57	1.2	7 54	0.4	0 57 55.8	53.6	+ 2.2	
117	10 15	1.2	10 14	0.4	1 0 13.8	13.6	+ 0.2	
118	10 14	1.2	10 13	0.4	1 0 12.8	12.6	+ 0.2	
119	10 52	1.2	10 52	0.5	1 0 50.8	51.5	- 0.7	
120	10 9	1.3	10 8	0.5	1 0 7.7	7.5	+ 0.2	
121	7 2	1.4	7 2	0.7	0 57 0.6	1.3	- 0.7	Reddish.
122	2 40	1.5	2 40	0.8	0 52 38.5	39.2	- 0.7	
123	3 13	1.5	3 12	0.8	0 53 11.5	11.2	+ 0.3	
124	3 36	1.5	3 35	0.8	0 53 34.5	34.2	+ 0.3	
125	8 47	1.5	8 47	0.8	0 58 45.5	46.2	- 0.7	
126	0 35	1.7	0 34	1.1	0 50 33.3	32.9	+ 0.4	
127	1 6	1.7	1 4	1.1	0 51 4.3	2.9	+ 1.4	
128	3 14	1.7	3 12	1.1	0 53 12.3	10.9	+ 1.4	
129	2 57	1.7	2 57	1.1	0 52 55.3	55.9	- 0.6	
130	10 45	1.7	10 46	0.9	1 0 43.3	45.1	- 1.8	
131	0 42	1.9	0 42	1.3	0 50 40.1	40.7	- 0.6	Reddish.
132	3 39	1.9	3 38	1.3	0 53 37.1	36.7	+ 0.4	
133	3 12	2.0	3 12	1.3	0 53 10.0	10.7	- 0.7	
134	9 45	1.9	9 46	1.2	0 59 43.1	44.8	- 1.7	
135	+10 0	- 1.9	+ 9 59	- 1.2	+ 0 59 58.1	57.8	+ 0.3	

ZONE OBSERVATIONS.

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}30.Dec. +^o50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 132.					ZONE 133.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 132.		Zone 133.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	
136	12-13	17 11 10.2	14.2	10.20	+0.11		17 11 10.0	13.9	9.95	+0.45		17 11 10.31	10.40	-0.09			
137	12	11 36.0	39.9	35.95	0.10		11 35.6	39.6	35.60	0.44		11 36.05	36.04	+0.01			
138	12	12 26.1	30.0	26.05	0.10		12 25.7	29.7	25.70	0.44		12 26.15	26.14	+0.01			
139	12-13	13 18.0	22.1	18.05	0.09		13 17.7	21.7	17.70	0.44		13 18.14	18.14	0.00			
140	12	13 25.2	29.3	25.25	0.09		13 24.9	28.9	24.90	0.44		13 25.34	25.34	0.00			
141	9-10	14 12.7	16.6	12.65	0.08		14 12.2	16.2	12.20	0.43		14 12.73	12.63	+0.10			
142	9	15 44.9	48.9	44.90	0.07		15 44.6	48.5	44.55	0.43		15 44.97	44.98	-0.01			
143	8	15 51.7	55.6	51.65	0.07		15 51.3	55.2	51.25	0.42		15 51.72	51.67	+0.05			
144	12-13	18 59.4	63.4	59.40	0.05		18 58.9	62.7	58.80	0.40		18 59.45	59.20	+0.25			
145	12-13	19 8.8	....	8.80	0.05		19 8.1	12.2	8.15	0.40		19 8.85	8.55	0.00			
146	7	19 21.2	25.2	21.20	0.04		19 20.7	24.8	20.75	0.40		19 21.24	21.15	+0.09			
147	12	19 43.0	47.2	43.10	0.04		19 42.6	46.6	42.60	0.40		19 43.14	43.00	+0.14			
148	...	.....	.....	.....	.....		20 11.0	15.0	11.00	0.40		20	11.40	.....		
149	11-12	.....	.....	.....	.....		20 40.7	44.6	40.65	0.40		20	41.05	.....		
150	10-11	20 50.1	54.2	50.15	0.03		20 50.1	54.2	50.15	0.39		20 50.18	50.54	-0.36			
151	12-13	21 19.4	23.5	19.45	0.02		21 19.0	22.9	18.95	0.38		21 19.47	19.33	+0.14			
152	11-12	21 51.8	....	51.80	0.02		21 51.2	....	51.20	0.38		21 51.82	51.58	+0.24			
153	11-12	22 4.1	8.1	4.10	0.02		22 3.6	7.8	3.70	0.38		22 4.12	4.08	+0.04			
154	12	22 11.2	15.3	11.25	0.02		22 10.7	14.7	10.70	0.38		22 11.27	11.08	+0.19			
155	12	23 6.2	10.0	6.10	0.01		23 5.7	9.6	5.65	0.37		23 6.11	6.02	+0.09			
156	12-13	23 17.8	21.8	17.80	0.01		23 17.2	21.3	17.25	0.37		23 17.81	17.62	+0.19			
157	10-11	23 58.4	62.5	58.45	+0.01		23 58.0	61.8	57.90	0.37		23 58.46	58.27	+0.19			
158	10-11	24 36.2	40.2	36.20	0.00		24 35.7	39.7	35.70	0.36		24 36.20	36.06	+0.14			
159	10	24 49.0	53.1	49.05	0.00		24 48.6	52.6	48.60	0.36		24 49.05	48.96	+0.09			
160	11-12	25 22.2	26.4	22.30	0.00		25 21.9	25.8	21.85	0.36		25 22.30	22.21	+0.09			
161	11-12	25 45.6	49.5	45.55	-0.01		25 45.1	49.2	45.15	0.35		25 45.54	45.50	+0.04			
162	12	26 24.9	28.8	24.85	0.01		26 24.3	28.3	24.30	0.35		26 24.84	24.65	+0.19			
163	11-12	26 48.4	....	48.40	0.01		26 47.9	51.9	47.90	0.35		26 48.39	48.25	+0.14			
164	12	26 54.2	....	54.20	0.01		26 53.6	57.7	53.65	0.35		26 54.19	54.00	+0.19			
165	12	27 6.9	11.0	6.95	0.01		27 6.3	10.2	6.25	0.35		27 6.94	6.60	+0.34			
166	11-12	27 26.2	30.1	26.15	0.02		27 25.7	29.7	25.70	0.34		27 26.13	26.04	+0.09			
167	12-13	27 27.9	31.7	27.80	0.01		27 27.5	31.7	27.60	0.35		27 27.79	27.95	-0.16			
168	12	28 40.3	44.4	40.35	0.02		28 39.9	43.9	39.90	0.34		28 40.33	40.24	+0.09			
169	12	29 9.2	13.2	9.20	0.03		29 8.7	12.6	8.65	0.33		29 9.17	8.98	+0.19			
170	12	29 41.4	45.4	41.40	0.03		29 40.8	45.0	40.90	0.33		29 41.37	41.23	+0.14			
171	12	29 57.4	61.5	57.45	0.03		29 56.9	61.0	56.95	0.33		29 57.42	57.28	+0.14			
172	9-10	30 21.8	25.8	21.80	0.04		30 21.3	25.3	21.30	0.32		30 21.76	21.62	+0.14			
173	9-10	31 9.9	13.7	9.80	0.04		31 9.3	13.4	9.35	0.32		31 9.76	9.67	+0.09			
174	10	31 37.2	41.2	37.20	0.05		31 36.7	40.7	36.70	0.31		31 37.15	37.01	+0.14			
175	10-11	31 38.6	42.7	38.65	0.04		31 38.1	42.1	38.10	0.32		31 38.61	38.42	+0.19			
176	10-11	32	38.8	34.80	0.05		32 34.5	38.3	34.40	0.31		32 34.75	34.71	+0.04			
177	11	32 39.3	43.3	39.30	0.05		32	42.8	38.80	0.31		32 39.25	39.11	+0.14			
178	8	32 46.5	50.5	46.50	0.06		32 45.8	50.1	45.95	0.30		32 46.44	46.25	+0.19			
179	8-9	33 9.0	13.0	9.00	0.05		33 8.5	12.6	8.55	0.31		33 8.95	8.86	+0.09			
180	12	17 33 11.9	15.8	11.85	-0.06		17 33	15.3	11.30	+0.31		17 33 11.79	11.61	+0.18			

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 132.	d.	Zone 133.	d.	Zone 132.	Zone 133.		
136	+ 9 27	- 2.0	+ 9 29	- 1.4	+ 0 59 25.0	27.6	- 2.6	Two comp., a 20" s. p., b. 10" s.
137	3 58	2.2	3 57	1.6	0 53 55.8	55.4	+ 0.4	
138	6 30	2.2	6 31	1.6	0 56 27.8	29.4	- 1.6	
139	5 39	2.3	5 39	1.7	0 55 36.7	37.3	- 0.6	
140	6 52	2.3	6 55	1.7	0 56 49.7	53.3	- 3.6	
141	0 6	2.5	0 6	2.0	0 50 3.5	4.0	- 0.5	Yellow.
142	10 43	2.4	10 43	1.8	1 0 40.6	41.2	- 0.6	
143	8 42	2.5	8 44	1.9	0 58 39.5	42.1	- 2.6	
144	8 1	2.7	8 1	2.3	0 57 58.3	58.7	- 0.4	
145	9 4	2.7	9 2	2.3	0 58 61.3	59.7	+ 1.6	
146	6 58	2.8	6 56	2.3	0 56 55.2	53.7	+ 1.5	Comp. 10" s. f., 14th mag.
147	10 13	2.8	10 12	2.4	1 0 10.2	9.6	+ 0.6	
148	0 1	...	8 45	2.4	0 58	42.6	...	
149	8 49	2.9	8 48	2.5	0 58 46.1	45.5	+ 0.6	
150	3 46	3.0	3 46	2.6	0 53 43.0	43.4	- 0.4	
151	2 45	3.1	2 46	2.7	0 52 41.9	43.3	- 1.4	Coarse cluster s. p.
152	7 48	3.0	7 49	2.6	0 57 45.0	46.4	- 1.4	
153	2 36	3.1	2 36	2.8	0 52 32.9	33.2	- 0.3	
154	2 5	3.2	2 4	2.8	0 52 1.8	1.2	+ 0.6	
155	6 44	3.2	6 44	2.8	0 56 40.8	41.2	- 0.4	
156	7 17	3.2	7 16	2.8	0 57 13.8	13.2	+ 0.6	Comp. 4" p., 13th mag.
157	5 9	3.3	5 9	2.9	0 55 5.7	6.1	- 0.4	
158	5 20	3.3	5 20	3.0	0 55 16.7	17.0	- 0.3	
159	3 57	3.4	3 55	3.0	0 53 53.6	52.0	+ 1.6	
160	5 30	3.4	5 30	3.0	0 55 26.6	27.0	- 0.4	
161	2 20	3.5	2 20	3.1	0 52 16.5	16.9	- 0.4	A large number of 12, 13 mag. stars unobserved.
162	5 59	3.5	5 59	3.1	0 55 55.5	55.9	- 0.4	
163	10 18	3.4	10 17	3.1	1 0 14.6	13.9	+ 0.7	
164	7 35	3.5	7 35	3.1	0 57 31.5	31.9	- 0.4	
165	5 9	3.5	5 9	3.2	0 55 5.5	5.8	- 0.3	
166	6 57	3.5	6 58	3.2	0 56 53.5	54.8	- 1.3	Double.
167	8 27	3.5	8 28	3.2	0 58 23.5	24.8	- 1.3	
168	8 42	3.6	8 42	3.3	0 58 38.4	38.7	- 0.3	
169	7 13	3.7	7 14	3.4	0 57 9.3	10.6	- 1.3	
170	7 1	3.7	7 0	3.4	0 56 57.3	56.6	+ 0.7	
171	9 19	3.7	9 19	3.4	0 59 15.3	15.6	- 0.3	Double.
172	0 31	3.9	0 32	3.6	0 50 27.1	28.4	- 1.3	
173	6 29	3.9	6 28	3.6	0 56 25.1	24.4	+ 0.7	
174	2 39	4.0	2 39	3.7	0 52 35.0	35.3	- 0.3	
175	9 40	3.8	9 39	3.6	0 59 36.2	35.4	+ 0.8	
176	3 46	4.1	3 44	3.8	0 53 41.9	40.2	+ 1.7	
177	7 52	4.0	7 52	3.7	0 57 48.0	48.3	- 0.3	
178	0 21	4.1	0 22	3.9	0 50 17.9	18.1	- 0.2	
179	10 9	4.0	10 9	3.7	1 0 5.0	5.3	- 0.3	
180	+ 5 4	- 4.1	+ 5 5	- 3.8	+ 0 54 59.9	6.2	- 1.3	

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.Dec. +^o50 to ^o10.

Number of the Star.	Magnitude.	ZONE 132.					ZONE 133.					MEAN RIGHT ASCENSION 1859.0		Difference.
		First Wire	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 132.	Zone 133.			
181	12	h. m. s. 17 33 51.2	s. 55.3	s. 51.25	-0.06	h. m. s. 17 33 50.8	s. 54.9	s. 50.85	+0.31	h. m. s. 17 33 51.19	s. 51.16	+0.03		
182	12	33 51.9	56.1	52.00	0.06	33 51.7	55.7	51.70	0.30	33 51.94	52.00	-0.06		
183	9-10	34 17.6	21.5	17.55	0.06	34 16.9	20.9	16.90	0.30	34 17.49	17.20	+0.29		
184	12	35	57.1	53.10	0.06	35 52.6	56.7	52.65	0.29	35 53.04	52.94	+0.10		
185	11-12	36 12.6	16.6	12.60	0.06	36 12.1	16.2	12.15	0.29	36 12.54	12.44	+0.10		
186	12-13	36 50.0	54.0	50.00	0.07	36 49.4	53.4	49.40	0.28	36 49.93	49.68	+0.25		
187	10-11	37 52.4	56.4	52.40	0.08	37 51.9	56.0	51.95	0.28	37 52.32	52.23	+0.09		
188	9-10	38 6.8	10.8	6.80	0.09	38 6.2	10.2	6.20	0.27	38 6.71	6.47	+0.24		
189	11-12	39 28.3	....	28.30	0.11	39 27.8	....	27.80	0.26	39 28.19	28.06	+0.13
190	12	39 40.0	44.0	40.00	0.10	39 39.6	43.6	39.60	0.27	39 39.90	39.87	+0.03		
191	11-12	39 43.3	47.2	43.25	0.10	39 42.8	46.8	42.80	0.27	39 43.15	43.07	+0.08		
192	12	40 8.2	12.2	8.20	0.11	40 7.8	11.8	7.80	0.26	40 8.09	8.06	+0.03		
193	12	40 10.0	13.9	9.95	0.11	40 9.5	13.5	9.50	0.26	40 9.84	9.76	+0.08		
194	11-12	40 48.5	52.5	48.50	0.11	40 48.0	52.1	48.05	0.26	40 48.39	48.31	+0.08		
195	7-8	42 23.7	27.8	23.75	0.12	42 23.4	27.3	23.35	0.25	42 23.63	23.60	+0.03		
196	11-12	42 31.5	35.4	31.45	0.12	42 31.0	35.0	31.00	0.25	42 31.33	31.25	+0.08		
197	11-12	43 13.5	17.6	13.55	0.13	43 13.1	17.1	13.10	0.24	43 13.42	13.34	+0.08		
198	12	46 1.2	5.2	1.20	0.14	46 0.7	4.7	0.70	0.23	46 1.06	0.03	+0.03		
199	12	46 15.3	19.5	15.40	0.15	46 14.8	18.9	14.85	0.23	46 15.25	15.08	+0.17		
200	12-13	46 28.6	32.6	28.60	0.15	46 28.0	32.0	28.00	0.23	46 28.45	28.23	+0.22		
201	12	46 41.7	45.8	41.75	0.15	46 41.3	45.4	41.35	0.22	46 41.60	41.57	+0.03		
202	12	47 20.8	24.7	20.75	0.16	47 20.1	24.3	20.20	0.22	47 20.59	20.42	+0.17		
203	12	47	62.7	58.70	0.16	47 58.2	62.2	58.20	0.22	47 58.54	58.42	+0.12		
204	10	.....	.....	.....	.....	48 14.5	18.4	14.45	0.22	48	14.67	....	
205	9	48 38.0	42.0	38.00	0.16	48 37.4	41.5	37.45	0.22	48 37.84	37.67	+0.17		
206	11-12	.....	.....	.....	.....	49 19.7	23.7	19.70	0.21	49	19.91	....	
207	12-13	49 49.2	53.3	49.25	0.17	49 48.8	52.7	48.75	0.21	49 49.08	48.96	+0.12		
208	12	50 20.0	24.1	20.05	0.17	50 19.4	23.6	19.50	0.21	50 19.88	19.71	+0.17		
209	11-12	51 3.9	7.9	3.90	0.18	51 3.5	....	3.50	0.20	51 3.72	3.70	+0.02	
210	10	51 15.1	19.0	15.05	0.18	51 14.5	18.5	14.50	0.20	51 14.87	14.70	+0.17		
211	11-12	51 23.3	27.3	23.30	0.18	51 22.9	26.9	22.90	0.20	51 23.12	23.10	+0.02		
212	11-12	52 46.0	50.0	46.00	0.20	52 45.5	49.5	45.50	0.18	52 45.80	45.68	+0.12		
213	11-12	53 1.5	....	1.50	0.19	53 1.0	5.1	1.05	0.19	53 1.31	1.24	+0.07	
214	11-12	53 7.2	11.3	7.25	0.19	53 6.8	10.9	6.85	0.18	53 7.06	7.03	+0.03		
215	11-12	53 46.7	50.7	46.70	0.20	53 46.1	50.3	46.20	0.18	53 46.50	46.38	+0.12		
216	11-12	54 8.7	12.7	8.70	0.21	54 8.3	12.3	8.30	0.18	54 8.49	8.48	+0.01		
217	12-13	54 57.1	61.2	57.15	0.22	54 56.8	60.8	56.80	0.17	54 56.93	56.97	-0.04		
218	9-10	54 58.5	62.5	58.50	0.22	54 58.0	62.0	58.00	0.17	54 58.28	58.17	+0.11		
219	10	55 37.1	41.0	37.05	0.22	55 36.6	40.7	36.65	0.17	55 36.83	36.82	+0.01		
220	10-11	55 57.4	61.4	57.40	0.22	55 56.9	61.0	56.95	0.17	55 57.18	57.12	+0.06		
221	12	56 45.4	49.6	45.50	0.23	56 45.1	49.0	45.05	0.16	56 45.27	45.21	+0.06		
222	10-11	56 51.7	55.7	51.70	0.23	56 51.1	55.2	51.15	0.16	56 51.47	51.31	+0.16		
223	9-10	57 33.3	37.3	33.30	0.24	57 32.9	36.9	32.90	0.15	57 33.06	33.05	+0.01		
224	9	58 ....	.....	.....	.....	58 14.2	18.1	14.15	0.15	58	14.30	....	
225	9-10	17 58	42.6	38.60	-0.24	17 58 38.1	42.0	38.05	+0.15	17 58 38.36	38.20	+0.16		

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 182.	d.	Zone 183.	d.	Zone 182.	Zone 183.		
181	+ 6 39	- 4.1	+ 6 41	- 3.8	+ 0 56 34.9	37.2	- 2.3	Comp., 8" s. f., 14th mag.
182	7 4	4.1	7 4	3.8	0 56 59.9	60.2	- 0.3	
183	7 33	4.1	7 32	3.8	0 57 28.9	28.2	+ 0.7	
184	9 3	4.2	9 3	4.0	0 58 58.8	59.0	- 0.2	
185	8 52	4.3	8 52	4.0	0 58 47.7	48.0	- 0.3	
186	3 5	4.4	3 5	4.3	0 53 0.6	0.7	- 0.1	Many stars unobserved.
187	11 0	4.4	10 59	4.2	1 0 55.6	54.8	+ 0.8	
188	3 11	4.6	3 11	4.4	0 53 6.4	6.6	- 0.2	
189	0 37	4.7	0 37	4.6	0 50 32.3	32.4	- 0.1	
190	4 37	4.7	4 37	4.5	0 54 32.3	32.5	- 0.2	
191	6 20	4.6	6 19	4.5	0 56 15.4	14.5	+ 0.9	
192	2 57	4.8	2 57	4.6	0 52 52.2	52.4	- 0.2	
193	3 52	4.7	3 53	4.6	0 53 47.3	48.4	- 1.1	
194	8 9	4.7	8 8	4.5	0 58 4.3	3.5	+ 0.8	
195	7 19	4.9	7 18	4.7	0 57 14.1	13.3	+ 0.8	
196	5 3	4.9	5 3	4.8	0 54 58.1	58.2	- 0.1	13th mag. stars numerous.
197	2 23	5.0	2 23	5.0	0 52 18.0	18.0	0.0	
198	10 34	5.1	10 32	5.0	1 0 28.9	27.0	+ 1.9	
199	5 5	5.2	5 3	5.2	0 54 59.8	57.8	+ 2.0	
200	4 4	5.3	4 5	5.2	0 53 58.7	57.8	+ 0.9	
201	3 58	5.3	3 58	5.2	0 53 52.7	52.8	- 0.1	
202	0 15	5.5	0 15	5.4	0 50 9.5	9.6	- 0.1	
203	6 54	5.4	6 54	5.3	0 56 48.6	48.7	- 0.1	
204	4 41	5.5	4 42	5.4	0 54 35.5	36.6	- 1.1	
205	10 26	5.4	10 26	5.2	1 0 20.6	20.8	- 0.2	
206	1 58	5.6	1 58	5.6	0 51 52.4	52.4	0.0	13th mag. stars numerous.
207	10 59	5.5	10 58	5.4	1 0 53.5	52.6	+ 0.9	
208	11 5	5.5	11 3	5.4	1 0 59.5	57.6	+ 1.9	
209	4 46	5.7	4 47	5.7	0 54 40.3	41.3	- 1.0	
210	5 22	5.7	5 22	5.7	0 55 16.3	16.3	0.0	
211	6 15	5.7	6 14	5.7	0 56 9.3	8.3	+ 1.0	
212	4 48	5.9	4 49	5.9	0 54 42.1	43.1	- 1.0	
213	10 41	5.8	10 41	5.7	1 0 35.2	35.3	- 0.1	
214	6 55	5.9	6 55	5.8	0 56 49.1	49.2	- 0.1	
215	9 26	5.9	9 26	5.9	0 59 20.1	20.1	0.0	
216	5 49	6.0	5 49	6.0	0 55 43.0	43.0	0.0	13th mag. stars numerous.
217	2 33	6.1	2 33	6.2	0 52 26.9	26.8	+ 0.1	
218	2 45	6.1	2 44	6.2	0 52 38.9	37.8	+ 1.1	
219	7 37	6.1	7 38	6.1	0 57 30.9	31.9	- 1.0	
220	7 30	6.1	7 30	6.1	0 57 23.9	23.9	0.0	
221	3 10	6.3	3 10	6.4	0 53 3.7	3.6	+ 0.1	
222	3 46	6.3	3 46	6.3	0 53 39.7	39.7	0.0	
223	0 26	6.4	0 26	6.5	0 50 19.5	19.5	+ 0.1	
224	4 27	6.4	4 27	6.5	0 54 22.9	23.2	- 0.3	
225	+ 5 24	- 6.4	+ 5 24	- 6.5	+ 0 55 17.6	17.5	+ 0.1	

ZONE OBSERVATIONS.

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}20.Dec. +^o50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 132.						ZONE 133.						MEAN RIGHT ASCENSION. 1859.0				Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 132.		Zone 133.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.			
226	12			.....	.....	.....	.....	17	59	10.1	13.9	10.00	+0.15	17	59	.....	10.15	.....	
227	10-11	18	0	57.0	60.9	56.95	-0.26	18	0	56.5	60.6	56.55	0.13	18	0	56.69	56.68	+0.01		
228	11		1	32.2	36.2	32.20	0.27		1	32.0	35.9	31.95	0.12		1	31.93	32.07	-0.14		
229	10-11		1	45.3	49.4	45.35	0.26		1	44.9	49.0	44.95	0.13		1	45.09	45.08	+0.01		
230	9-10		2	18.2	22.3	18.25	0.27		2	17.9	21.9	17.90	0.12		2	17.98	18.02	-0.04		
231	12		7	....	26.9	22.90	0.30		7	22.7	26.8	22.75	0.09		7	22.60	22.84	-0.24	
232	12-13		7	46.2	50.2	46.20	0.31		7	45.8	49.8	45.80	0.09		7	45.89	45.89	0.00		
233	12		9	36.1	40.1	36.10	0.32		9	....	39.6	35.60	0.08		9	35.78	35.68	+0.10	
234	7		9	55.3	59.2	55.25	0.32		9	54.8	58.7	54.75	0.08		9	54.93	54.83	+0.10		
235	11-12		10	41.0	45.2	41.10	0.33		10	40.7	44.7	40.70	0.07		10	40.77	40.77	0.00		
236	12		11	39.7	43.6	39.65	0.33		11	39.2	43.3	39.25	0.07		11	39.32	39.32	0.00		
237	12		11	59.4	63.3	59.35	0.34		11	59.0	63.1	59.05	0.06		11	59.01	59.11	-0.10		
238	12		12	0.5	4.3	0.40	0.34		11	59.9	64.3	60.10	0.06		12	0.06	0.16	-0.10		
239	11-12		12	13.5	17.4	13.45	0.34		12	13.0	17.1	13.05	0.06		12	13.11	13.11	0.00		
240	12-13		13	41.8	45.9	41.85	0.35		13	41.5	45.5	41.50	0.05		13	41.50	41.55	-0.05		
241	12-13		13	57.8	61.7	57.75	0.35		13	57.1	61.2	57.15	0.05		13	57.40	57.20	+0.20		
242	11-12		14	32.2	36.2	32.20	0.35		14	31.8	35.9	31.85	0.05		14	31.85	31.90	-0.05		
243	10-11		14	55.0	59.0	55.00	0.36		14	54.8	58.7	54.75	0.04		14	54.64	54.79	-0.15		
244	9		15	11.7	15.7	11.70	0.36		15	11.4	15.4	11.40	0.04		15	11.34	11.44	-0.10		
245	11-12		18	23.5	....	23.50	0.38		18	23.0	27.0	23.00	0.02		18	23.12	23.02	+0.10	
246	11-12		.....	.....	.....	.....	.....		18	31.6	....	31.60	0.02		18	....	31.62	....	
247	11-12		18	57.3	61.3	57.30	0.39		18	56.8	60.8	56.80	0.01		18	56.91	56.81	+0.10		
248	10-11		19	7.4	11.5	7.45	0.39		19	7.0	11.0	7.00	0.01		19	7.06	7.01	+0.05		
249	12		19	35.1	39.3	35.20	0.39		19	34.8	38.8	34.80	0.01		19	34.81	34.81	0.00		
250	11		19	58.1	62.1	58.10	0.40		19	57.8	61.8	57.80	0.00		19	57.70	57.80	-0.10		
251	10-12		19	59.1	63.2	59.15	0.40		19	58.9	62.8	58.85	0.00		19	58.75	58.85	-0.10		
252	10-11	18	20	17.7	21.9	17.80	-0.39		18	20	17.4	21.5	17.45	+0.01		18	20	17.41	17.46	-0.05

A.R. ^{h.}16 ^{m.}0 to ^{h.}18 ^{m.}30.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 122.	d.	Zone 123.	d.	Zone 122.	Zone 123.		
226	+11' 2"	- 6.4	+11' 4"	- 6.4	+ 0° 0' 55.6	57.6	- 2.0	Comp., 13" s. p., 13th mag.
227	2 36	6.7	2 36	6.8	0 52 29.3	29.2	+ 0.1	
228	3 17	6.8	3 18	6.9	0 53 10.2	11.1	- 0.9	
229	8 30	6.7	8 32	6.7	0 58 23.3	25.3	- 2.0	
230	1 22	6.9	1 22	7.0	0 51 15.1	15.0	+ 0.1	
231	7 18	7.2	7 18	7.3	0 57 10.8	10.7	+ 0.1	
232	5 55	7.3	5 54	7.4	0 55 47.7	46.6	+ 1.1	
233	8 39	7.4	8 40	7.5	0 58 31.6	32.5	- 0.9	
234	7 45	7.4	7 46	7.6	0 57 37.6	38.4	- 0.8	
235	8 54	7.5	8 54	7.6	0 58 46.5	46.4	+ 0.1	
236	8 7	7.6	8 6	7.7	0 57 59.4	58.3	+ 1.1	
237	4 9	7.7	4 11	7.9	0 54 1.3	3.1	- 1.8	
238	6 52	7.7	6 54	7.8	0 56 44.3	46.2	- 1.9	
239	8 8	7.6	8 1	7.8	0 57 60.4	53.2	+ 7.2	
240	3 39	7.9	3 39	8.1	0 53 31.1	30.9	+ 0.2	
241	6 52	7.8	6 52	8.0	0 56 44.2	44.0	+ 0.2	
242	8 10	7.8	8 9	8.1	0 58 2.2	0.9	+ 1.3	
243	8 20	7.9	8 21	8.1	0 58 12.1	12.9	- 0.8	
244	9 32	7.9	9 32	8.1	0 59 24.1	23.9	+ 0.2	
245	6 27	8.2	6 27	8.5	0 56 18.8	18.5	+ 0.3	
246	8 15	8.2	8 16	8.5	0 58 6.8	7.5	- 0.7	
247	6 26	8.3	6 26	8.6	0 56 17.7	17.4	+ 0.3	
248	8 11	8.3	8 12	8.6	0 58 2.7	3.4	- 0.7	
249	2 30	8.4	2 30	8.8	0 52 21.6	21.2	+ 0.4	
250	3 8	8.4	3 8	8.8	0 52 59.6	59.2	+ 0.4	
251	4 8	8.4	4 9	8.8	0 53 59.6	60.2	- 0.6	
252	+ 9 27	- 8.3	+ 9 27	- 8.7	+ 0 59 18.7	18.3	+ 0.4	Starless field.

ZONE OBSERVATIONS.

A.R. 18 10 to 20 27.

Dec. +0 40 to 0 50.

Number of the Star.	Magnitude.	ZONE 134.				ZONE 135.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.	Zone 135.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	
1	9	18 10 55.8	59.8	55.80	+0.44	18 10 55.2	59.1	55.15	+1.12	18 10 56.24	56.27	-0.03
2	8-9	11 28.1	32.2	28.15	0.43	11 27.5	31.6	27.55	1.11	11 28.58	28.66	-0.08
3	11-12	11 28.8	32.8	28.80	0.43	11 28.0	32.0	28.00	1.11	11 29.23	29.11	+0.12
4	11	12 13.7	17.6	13.65	0.43	12 12.9	16.9	12.90	1.11	12 14.08	14.01	+0.07
5	8	12 14.6	18.6	14.60	0.43	12 13.9	17.9	13.90	1.11	12 15.03	15.01	+0.02
6	12	12 53.1	57.1	53.10	0.43	12 52.4	....	52.40	1.11	12 53.53	53.51	+0.02
7	10-11	12 53.6	57.7	53.65	0.43	12 52.9	....	52.90	1.11	12 54.08	54.01	+0.07
8	10	13 52.2	56.3	52.25	0.42	13 51.5	55.5	51.50	1.10	13 52.67	52.60	+0.07
9	12-13	13 58.8	62.8	58.80	0.42	13 58.0	62.0	58.00	1.10	13 59.22	59.10	+0.12
10	10-11	15 30.6	34.6	30.60	0.41	15 29.9	33.9	29.90	1.10	15 31.01	31.00	+0.01
11	9	16 45.0	49.0	45.00	0.41	16 44.3	48.4	44.35	1.09	16 45.41	45.44	-0.03
12	12	17 6.3	....	6.30	0.41	17 5.7	9.6	5.65	1.09	17 6.71	6.74	-0.03
13	11-12	17 9.7	13.6	9.65	0.40	17 8.6	12.5	8.55	1.09	17 10.05	9.64	+0.39
14	10-11	18 46.6	50.7	46.65	0.40	18 46.0	50.0	46.00	1.08	18 47.05	47.08	-0.03
15	7	18 52.0	56.0	52.00	0.40	18 51.4	55.3	51.35	1.08	18 52.40	52.43	-0.03
16	11-12	18 59.7	63.7	59.70	0.39	18 58.9	62.9	58.90	1.08	18 60.09	59.98	+0.11
17	12-13	19 40.4	44.5	40.45	0.39	19 39.8	....	39.80	1.08	19 40.84	40.88	-0.04
18	12	19 52.1	56.0	52.05	0.39	19 51.3	55.4	51.35	1.08	19 52.44	52.43	+0.01
19	9-10	20 5.2	9.2	5.20	0.39	20 4.4	8.5	4.45	1.08	20 5.59	5.53	+0.06
20	11	20 26.3	30.3	26.30	0.39	20 25.5	29.5	25.50	1.08	20 26.69	26.58	+0.11
21	12	20 59.9	64.0	59.95	0.39	20 59.2	62.3	59.25	1.08	21 0.34	0.33	+0.01
22	7-8	21 24.1	28.1	24.10	0.38	21 23.4	27.4	23.40	1.07	21 24.48	24.47	+0.01
23	10	22 3.2	7.3	3.25	0.38	22 2.5	6.4	2.45	1.07	22 3.63	3.52	+0.11
24	12-13	22 8.0	12.0	8.00	0.38	....	....	....	....	22 8.38	....	....
25	11-12	22 42.2	....	42.20	0.38	22 41.3	45.5	41.40	1.07	22 42.58	42.47	+0.11
26	11	22 42.7	....	42.70	0.38	22 42.1	46.1	42.10	1.07	22 43.08	43.17	-0.09
27	9-10	22 56.2	60.2	56.20	0.38	22 55.4	59.4	55.40	1.07	22 56.58	56.47	+0.11
28	12	23 6.9	11.0	6.95	0.38	23 6.3	10.2	6.25	1.07	23 7.33	7.32	+0.01
29	12	24 13.9	17.4	13.65	0.37	24 13.1	17.1	13.10	1.06	24 14.02	14.16	-0.14
30	12	24 24.5	28.5	24.50	0.37	24 23.8	27.7	23.75	1.06	24 24.87	24.81	+0.06
31	9-10	24 43.5	47.6	43.55	0.37	24 42.8	46.9	42.85	1.06	24 43.92	43.91	+0.01
32	10	26 59.7	63.6	59.65	0.36	26 58.8	62.8	58.80	1.05	26 60.01	59.85	+0.16
33	11-12	28 58.9	63.0	58.95	0.35	28 58.3	62.3	58.30	1.04	28 59.30	59.34	-0.04
34	12	29 38.6	42.7	38.65	0.35	....	....	....	....	29 39.00	....	....
35	7	29 58.6	62.6	58.60	0.35	29 57.8	61.8	57.80	1.04	29 58.95	58.84	+0.11
36	12	30 4.6	8.8	4.70	0.35	30 3.9	7.9	3.90	1.04	30 5.05	4.94	+0.11
37	9	30 24.4	28.5	24.45	0.35	30 23.6	27.7	23.65	1.04	30 24.80	24.69	+0.11
38	9-10	30 45.2	49.2	45.20	0.35	30 44.2	48.3	44.25	1.04	30 45.55	45.29	+0.26
39	12	30 50.5	54.6	50.55	0.35	30 49.6	53.7	49.65	1.04	30 50.90	50.69	+0.21
40	12	31 29.7	33.7	29.70	0.34	31 29.0	33.0	29.00	1.03	31 30.04	30.03	+0.01
41	12	32 27.5	31.5	27.50	0.34	32 26.7	30.6	26.65	1.03	32 27.84	27.68	+0.16
42	10-11	34 36.3	40.3	36.30	0.33	34 35.5	39.6	35.55	1.02	34 36.63	36.57	+0.06
43	10-11	34	44.4	40.40	0.33	34	43.7	39.70	1.02	34 40.73	40.72	+0.01
44	11-12	35 12.3	16.4	12.35	0.33	35 11.7	15.7	11.70	1.02	35 12.68	12.72	-0.04
45	12	18 36 9.6	....	9.60	+0.33	18 36 ...	12.9	8.90	+1.01	18 36 9.93	9.91	+0.02

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 134.	d.	Zone 135.	d.	Zone 134.	Zone 135.		
1	+ 8 17	+ 2.2	+ 8 18	+ 0.7	+ 0 48 19.2	18.7	+ 0.5	
2	2 8	2.4	2 8	0.7	0 42 10.4	8.7	+ 1.7	
3	10 38	2.0	10 40	0.5	0 50 40.0	40.5	- 0.5	
4	0 16	2.4	0 17	0.7	0 40 18.4	17.7	+ 0.7	
5	7 15	2.1	7 15	0.5	0 47 17.1	15.5	+ 1.6	
6	9 29	2.0	9 29	0.5	0 49 31.0	29.5	+ 1.5	
7	+ 4 55	2.2	+ 4 56	0.6	0 44 57.2	56.6	+ 0.6	
8	- 0 8	2.3	- 0 6	0.6	0 39 54.3	54.6	- 0.3	
9	+ 2 14	2.2	+ 2 15	0.5	0 42 16.2	15.5	+ 0.7	
10	5 44	2.0	5 46	0.3	0 45 46.0	46.3	- 0.3	
11	4 14	1.8	4 16	0.2	0 44 15.8	16.2	- 0.4	
12	2 20	1.9	2 22	+ 0.2	0 42 21.9	22.2	- 0.3	
13	10 59	1.5	11 0	0.0	0 51 0.5	0.0	+ 0.5	
14	8 6	1.5	8 7	- 0.1	0 48 7.5	6.9	+ 0.6	
15	2 8	1.7	2 11	+ 0.1	0 42 9.7	11.1	- 1.4	
16	10 7	1.4	10 8	- 0.1	0 50 8.4	7.9	+ 0.5	
17	0 33	1.7	0 36	0.0	0 40 34.7	36.0	- 1.3	
18	9 22	1.3	9 24	0.2	0 49 23.3	23.8	- 0.5	
19	9 23	1.3	9 25	0.2	0 49 24.3	24.8	- 0.5	
20	0 30	1.6	0 32	0.0	0 40 31.6	32.0	- 0.4	
21	8 41	1.3	8 42	0.3	0 48 42.3	41.7	+ 0.6	
22	2 44	1.5	2 46	0.2	0 42 45.5	45.8	- 0.3	
23	7 43	1.2	7 45	0.4	0 47 44.2	44.6	- 0.4	
24	3 47	1.4	....	...	0 43 48.4	....	....
25	0 19	1.4	0 21	0.3	0 40 20.4	20.7	- 0.3	
26	3 12	1.3	3 13	0.3	0 43 13.3	12.7	+ 0.6	
27	3 8	1.3	3 11	0.4	0 43 9.3	10.6	- 1.3	
28	3 12	1.3	3 14	0.4	0 43 13.3	13.6	- 0.3	
29	9 42	0.9	9 43	0.6	0 49 42.9	42.4	+ 0.5	
30	8 14	1.0	8 13	0.6	0 48 15.0	12.4	+ 2.6	
31	5 32	1.1	5 34	0.6	0 45 33.1	33.4	- 0.3	Starless field.
32	10 33	0.6	10 35	0.9	0 50 33.6	34.1	- 0.5	
33	7 36	0.6	7 38	1.1	0 47 36.6	36.9	- 0.3	
34	0 31	0.8	0 32	1.0	0 40 31.8	31.0	+ 0.8	
35	10 8	0.4	10 10	1.2	0 50 8.4	8.8	- 0.4	
36	7 18	0.5	....	...	0 47 18.5	....	...
37	3 27	0.6	3 31	1.1	0 43 27.6	29.9	- 2.3	
38	6 36	0.5	6 36	1.1	0 46 36.5	34.9	+ 1.6	
39	7 55	0.4	7 56	1.2	0 47 55.4	54.8	+ 0.6	
40	9 44	0.3	9 46	1.3	0 49 44.3	44.7	- 0.4	
41	10 21	0.2	10 23	1.5	0 50 21.2	21.5	- 0.3	Comp., 19" s. f., 14th mag.
42	3 8	0.3	3 10	1.5	0 43 8.3	8.5	- 0.2	
43	0 15	0.4	0 17	1.5	0 40 15.4	15.5	- 0.1	
44	5 28	0.1	5 29	1.6	0 45 28.1	27.4	+ 0.7	
45	+ 3 0	+ 0.1	+ 3 2	- 1.7	+ 0 43 0.1	0.3	- 0.2	

A.R. $18^{\text{h}} 10^{\text{m}}$ to $20^{\text{h}} 27^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 134.				ZONE 135.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.	Zone 135.	
1	9	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.
2	8-9	18 10 55.8	59.8	55.80	+0.44	18 10 55.2	59.1	55.15	+1.12	18 10 56.24	56.27	-0.03
3	11-12	11 28.1	32.2	28.15	0.43	11 27.5	31.6	27.55	1.11	11 28.58	28.66	-0.08
4	11	11 28.8	32.8	28.80	0.43	11 28.0	32.0	28.00	1.11	11 29.23	29.11	+0.12
5	8	12 13.7	17.6	13.65	0.43	12 12.9	16.9	12.90	1.11	12 14.08	14.01	+0.07
		12 14.6	18.6	14.60	0.43	12 13.9	17.9	13.90	1.11	12 15.03	15.01	+0.02
6	12	12 53.1	57.1	53.10	0.43	12 52.4	....	52.40	1.11	12 53.53	53.51	+0.02
7	10-11	12 53.6	57.7	53.65	0.43	12 52.9	....	52.90	1.11	12 54.08	54.01	+0.07
8	10	13 52.2	56.3	52.25	0.42	13 51.5	55.5	51.50	1.10	13 52.67	52.60	+0.07
9	12-13	13 58.8	62.8	58.80	0.42	13 58.0	62.0	58.00	1.10	13 59.22	59.10	+0.12
10	10-11	15 30.6	34.6	30.60	0.41	15 29.9	33.9	29.90	1.10	15 31.01	31.00	+0.01
11	9	16 45.0	49.0	45.00	0.41	16 44.3	48.4	44.35	1.09	16 45.41	45.44	-0.03
12	12	17 6.3	....	6.30	0.41	17 5.7	9.6	5.65	1.09	17 6.71	6.74	-0.03
13	11-12	17 9.7	13.6	9.65	0.40	17 8.6	12.5	8.55	1.09	17 10.05	9.64	+0.39
14	10-11	18 46.6	50.7	46.65	0.40	18 46.0	50.0	46.00	1.08	18 47.05	47.08	-0.03
15	7	18 52.0	56.0	52.00	0.40	18 51.4	55.3	51.35	1.08	18 52.40	52.43	-0.03
16	11-12	18 59.7	63.7	59.70	0.39	18 58.9	62.9	58.90	1.08	18 60.09	59.98	+0.11
17	12-13	19 40.4	44.5	40.45	0.39	19 39.8	....	39.80	1.08	19 40.84	40.88	-0.04
18	12	19 52.1	56.0	52.05	0.39	19 51.3	55.4	51.35	1.08	19 52.44	52.43	+0.01
19	9-10	20 5.2	9.2	5.20	0.39	20 4.4	8.5	4.45	1.08	20 5.59	5.53	+0.06
20	11	20 26.3	30.3	26.30	0.39	20 25.5	29.5	25.50	1.08	20 26.69	26.58	+0.11
21	12	20 59.9	64.0	59.95	0.39	20 59.2	62.3	59.25	1.08	21 0.34	0.33	+0.01
22	7-8	21 24.1	28.1	24.10	0.38	21 23.4	27.4	23.40	1.07	21 24.48	24.47	+0.01
23	10	22 3.2	7.3	3.25	0.38	22 2.5	6.4	2.45	1.07	22 3.63	3.52	+0.11
24	12-13	22 8.0	12.0	8.00	0.38	.....	.....	.....	.....	22 8.38	.....	.....
25	11-12	22 42.2	....	42.20	0.38	22 41.3	45.5	41.40	1.07	22 42.58	42.47	+0.11
26	11	22 42.7	....	42.70	0.38	22 42.1	46.1	42.10	1.07	22 43.08	43.17	-0.09
27	9-10	22 56.2	60.2	56.20	0.38	22 55.4	59.4	55.40	1.07	22 56.58	56.47	+0.11
28	12	23 6.9	11.0	6.95	0.38	23 6.3	10.2	6.25	1.07	23 7.33	7.32	+0.01
29	12	24 13.9	17.4	13.65	0.37	24 13.1	17.1	13.10	1.06	24 14.02	14.16	-0.14
30	12	24 24.5	28.5	24.50	0.37	24 23.8	27.7	23.75	1.06	24 24.87	24.81	+0.06
31	9-10	24 43.5	47.6	43.55	0.37	24 42.8	46.9	42.85	1.06	24 43.92	43.91	+0.01
32	10	26 59.7	63.6	59.65	0.36	26 58.8	62.8	58.80	1.05	26 60.01	59.85	+0.16
33	11-12	28 58.9	63.0	58.95	0.35	28 58.3	62.3	58.30	1.04	28 59.30	59.34	-0.04
34	12	29 38.6	42.7	38.65	0.35	.....	.....	.....	.....	29 39.00	.....	.....
35	7	29 58.6	62.6	58.60	0.35	29 57.8	61.8	57.80	1.04	29 58.95	58.84	+0.11
36	12	30 4.6	8.8	4.70	0.35	30 3.9	7.9	3.90	1.04	30 5.05	4.94	+0.11
37	9	30 24.4	28.5	24.45	0.35	30 23.6	27.7	23.65	1.04	30 24.80	24.69	+0.11
38	9-10	30 45.2	49.2	45.20	0.35	30 44.2	48.3	44.25	1.04	30 45.55	45.29	+0.26
39	12	30 50.5	54.6	50.55	0.35	30 49.6	53.7	49.65	1.04	30 50.90	50.69	+0.21
40	12	31 29.7	33.7	29.70	0.34	31 29.0	33.0	29.00	1.03	31 30.04	30.03	+0.01
41	12	32 27.5	31.5	27.50	0.34	32 26.7	30.6	26.65	1.03	32 27.84	27.68	+0.16
42	10-11	34 36.3	40.3	36.30	0.33	34 35.5	39.6	35.55	1.02	34 36.63	36.57	+0.06
43	10-11	34	44.4	40.40	0.33	34	43.7	39.70	1.02	34 40.73	40.72	+0.01
44	11-12	35 12.3	16.4	12.35	0.33	35 11.7	15.7	11.70	1.02	35 12.68	12.72	-0.04
45	12	18 36 9.6	....	9.60	+0.33	18 36	12.9	8.90	+1.01	18 36 9.93	9.91	+0.02

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 134.	d.	Zone 135.	d.	Zone 134.	Zone 135.		
1	+ 8 17	+ 2.2	+ 8 18	+ 0.7	+ 0 48 19.2	18.7	+ 0.5	
2	2 8	2.4	2 8	0.7	0 42 10.4	8.7	+ 1.7	
3	10 38	2.0	10 40	0.5	0 50 40.0	40.5	- 0.5	
4	0 16	2.4	0 17	0.7	0 40 18.4	17.7	+ 0.7	
5	7 15	2.1	7 15	0.5	0 47 17.1	15.5	+ 1.6	
6	9 29	2.0	9 29	0.5	0 49 31.0	29.5	+ 1.5	
7	+ 4 55	2.2	+ 4 56	0.6	0 44 57.2	56.6	+ 0.6	
8	- 0 8	2.3	- 0 6	0.6	0 39 54.3	54.6	- 0.3	
9	+ 2 14	2.2	+ 2 15	0.5	0 42 16.2	15.5	+ 0.7	
10	5 44	2.0	5 46	0.3	0 45 46.0	46.3	- 0.3	
11	4 14	1.8	4 16	0.2	0 44 15.8	16.2	- 0.4	
12	2 20	1.9	2 22	+ 0.2	0 42 21.9	22.2	- 0.3	
13	10 59	1.5	11 0	0.0	0 51 0.5	0.0	+ 0.5	
14	8 6	1.5	8 7	- 0.1	0 48 7.5	6.9	+ 0.6	
15	2 8	1.7	2 11	+ 0.1	0 42 9.7	11.1	- 1.4	
16	10 7	1.4	10 8	- 0.1	0 50 8.4	7.9	+ 0.5	
17	0 33	1.7	0 36	0.0	0 40 34.7	36.0	- 1.3	
18	9 22	1.3	9 24	0.2	0 49 23.3	23.8	- 0.5	
19	9 23	1.3	9 25	0.2	0 49 24.3	24.8	- 0.5	
20	0 30	1.6	0 32	0.0	0 40 31.6	32.0	- 0.4	
21	8 41	1.3	8 42	0.3	0 48 42.3	41.7	+ 0.6	
22	2 44	1.5	2 46	0.2	0 42 45.5	45.8	- 0.3	
23	7 43	1.2	7 45	0.4	0 47 44.2	44.6	- 0.4	
24	3 47	1.4	....	...	0 43 48.4	....	....
25	0 19	1.4	0 21	0.3	0 40 20.4	20.7	- 0.3	
26	3 12	1.3	3 13	0.3	0 43 13.3	12.7	+ 0.6	
27	3 8	1.3	3 11	0.4	0 43 9.3	10.6	- 1.3	
28	3 12	1.3	3 14	0.4	0 43 13.3	13.6	- 0.3	
29	9 42	0.9	9 43	0.6	0 49 42.9	42.4	+ 0.5	
30	8 14	1.0	8 13	0.6	0 48 15.0	12.4	+ 2.6	
31	5 32	1.1	5 34	0.6	0 45 33.1	33.4	- 0.3	Starless field.
32	10 33	0.6	10 35	0.9	0 50 33.6	34.1	- 0.5	
33	7 36	0.6	7 38	1.1	0 47 36.6	36.9	- 0.3	
34	0 31	0.8	0 32	1.0	0 40 31.8	31.0	+ 0.8	
35	10 8	0.4	10 10	1.2	0 50 8.4	8.8	- 0.4	
36	7 18	0.5	....	...	0 47 18.5	....	...
37	3 27	0.6	3 31	1.1	0 43 27.6	29.9	- 2.3	
38	6 36	0.5	6 36	1.1	0 46 36.5	34.9	+ 1.6	
39	7 55	0.4	7 56	1.2	0 47 55.4	54.8	+ 0.6	
40	9 44	0.3	9 46	1.3	0 49 44.3	44.7	- 0.4	
41	10 21	0.2	10 23	1.5	0 50 21.2	21.5	- 0.3	Comp., 19" s. f., 14th mag.
42	3 8	0.3	3 10	1.5	0 43 8.3	8.5	- 0.2	
43	0 15	0.4	0 17	1.5	0 40 15.4	15.5	- 0.1	
44	5 28	0.1	5 29	1.6	0 45 28.1	27.4	+ 0.7	
45	+ 3 0	+ 0.1	+ 3 2	- 1.7	+ 0 43 0.1	0.3	- 0.2	

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. ⁰+0 40 to ⁰0 50.

Number of the Star.	Magnitude.	ZONE 134.				ZONE 135.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.	Zone 135.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.
46	12	18 36	13.7	9.70	+0.32	18 36 9.0	. . . .	9.00	+1.01	18 36 10.02	10.01	+0.01
47	12	36 22.9	26.9	22.90	0.32	. . . . .	. . . . .	. . . . .	. . . . .	36 23.22	. . . . .	. . . . .
48	11-12	36 58.3	62.2	58.25	0.32	36 57.6	61.5	57.55	1.01	36 58.57	58.56	+0.01
49	10	37 10.9	14.9	10.90	0.32	37 10.1	14.1	10.10	1.01	37 11.22	11.11	+0.11
50	10	37 58.3	62.2	58.25	0.32	37 57.6	61.5	57.55	1.01	37 58.57	58.56	+0.01
51	11-12	38 24.0	28.0	24.00	0.32	38 23.3	27.4	23.35	1.01	38 24.32	24.36	-0.04
52	9	39 4.9	9.0	4.95	0.31	39 4.1	8.1	4.10	1.00	39 5.26	5.10	+0.16
53	9-10	39 14.3	18.4	14.35	0.31	39 13.7	17.9	13.80	1.00	39 14.66	14.80	-0.14
54	8-9	39 19.0	22.8	18.90	0.31	39 18.2	22.2	18.20	1.00	39 19.21	19.20	+0.01
55	12	39 35.4	39.3	35.35	0.31	39 34.7	38.7	34.70	1.00	39 35.66	35.70	-0.04
56	13	39 40.5	44.4	40.45	0.31	. . . . .	. . . . .	. . . . .	. . . . .	39 40.76	. . . . .	. . . . .
57	6-7	42 25.8	29.9	25.85	0.30	42 25.2	29.1	25.15	0.99	42 26.15	26.14	+0.01
58	11	42 38.0	42.1	38.05	0.30	42 37.2	41.4	37.30	0.99	42 38.35	38.29	+0.06
59	12	43 5.0	9.0	5.00	0.29	43 4.2	8.1	4.15	0.98	43 5.29	5.13	+0.16
60	12-13	43 24.6	28.8	24.70	0.29	43 23.9	28.0	23.95	0.98	43 24.99	24.93	+0.06
61	12	43 34.5	38.4	34.45	0.29	43 33.6	37.7	33.65	0.98	43 34.74	34.63	+0.11
62	8	44 4.7	8.7	4.70	0.29	44 4.0	8.1	4.05	0.98	44 4.99	5.03	-0.04
63	10-11	44 13.0	17.1	13.05	0.29	44 12.3	16.4	12.35	0.98	44 13.34	13.33	+0.01
64	9-10	44 55.3	59.4	55.35	0.29	44 54.8	58.9	54.85	0.98	44 55.64	55.83	-0.19
65	10	44 56.7	60.8	56.75	0.29	44 56.1	60.1	56.10	0.98	44 57.04	57.08	-0.04
66	10	45	5.0	1.00	0.28	45	4.4	0.40	0.98	45 1.28	1.38	-0.10
67	11	. . . . .	. . . . .	. . . . .	. . . . .	45	7.9	3.90	. . . . .	45 . . . . .	. . . . .	. . . . .
68	12	45 24.0	28.0	24.00	0.28	45 23.3	27.4	23.35	0.97	45 24.28	24.32	-0.04
69	8-9	46 17.0	21.0	17.00	0.28	46 16.2	20.2	16.20	0.97	46 17.28	17.17	+0.11
70	10-11	46 46.8	50.8	46.80	0.28	46 46.2	50.1	46.15	0.97	46 47.08	47.12	-0.04
71	11-12	46 53.3	57.2	53.25	0.28	46 52.5	56.5	52.50	0.97	46 53.53	53.47	+0.06
72	11	47 21.0	25.1	21.05	0.27	47 20.3	24.3	20.30	0.96	47 21.32	21.26	+0.06
73	10-11	47 43.0	46.9	42.95	0.27	47 42.2	46.1	42.15	0.96	47 43.22	43.11	+0.11
74	12	47 43.8	47.7	43.75	0.27	47 43.0	47.0	43.00	0.96	47 44.02	43.96	+0.06
75	12	48 26.7	30.8	26.75	0.27	48 26.1	30.1	26.10	0.96	48 27.02	27.06	-0.04
76	8-9	49 16.7	20.6	16.65	0.26	49 15.9	19.9	15.90	0.95	49 16.91	16.85	+0.06
77	12	49 26.6	30.7	26.65	0.26	49 25.8	29.8	25.80	0.95	49 26.91	26.75	+0.16
78	11	51 8.1	12.1	8.10	0.25	51 7.4	11.3	7.35	0.95	51 8.35	8.30	+0.05
79	10-11	51 13.2	17.3	13.25	0.25	51 12.5	16.5	12.50	0.95	51 13.50	13.45	+0.05
80	11	51 24.3	28.3	24.30	0.25	51 23.3	27.5	23.40	0.94	51 24.55	24.34	+0.21
81	12	51 44.8	48.8	44.80	0.25	51 44.0	48.0	44.00	0.94	51 45.05	44.94	+0.11
82	12	51 51.0	55.0	51.00	0.25	51 50.2	54.1	50.15	0.94	51 51.25	51.09	+0.16
83	10	52 11.7	15.8	11.75	0.25	52 10.9	14.9	10.90	0.94	52 12.00	11.84	+0.16
84	12	52 39.4	43.6	39.50	0.25	52 38.7	42.7	38.70	0.94	52 39.75	39.64	+0.11
85	10-11	52 59.1	63.1	59.10	0.25	52 58.3	62.5	58.40	0.94	52 59.35	59.34	+0.01
86	9-10	53 25.4	29.2	25.30	0.25	53 24.7	28.6	24.65	0.94	53 25.55	25.59	-0.04
87	12	53 28.3	32.1	28.20	0.25	53 27.5	31.6	27.55	0.94	53 28.45	28.49	-0.04
88	12	54 11.4	15.4	11.40	0.24	54 10.7	14.7	10.70	0.93	54 11.64	11.63	+0.01
89	10-11	55 15.9	19.9	15.90	0.24	55 15.3	19.2	15.25	0.93	55 16.14	16.18	-0.04
90	12	18 55 17.0	21.0	17.00	+0.24	18 55 16.1	20.4	16.25	+0.93	18 55 17.24	17.18	+0.06

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}37.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 184.	d.	Zone 185.	d.	Zone 184.	Zone 185.		
46	+10 12	- 0.2	+10 14	- 1.8	+ 0 50 11.8	12.2	- 0.4	Yellow.
47	4 31	0.0	....	...	0 44 31.0	....	....
48	5 50	0.1	5 52	1.8	0 45 49.9	50.2	- 0.3	
49	+ 5 19	- 0.1	+ 5 20	1.8	0 45 18.9	18.2	+ 0.7	
50	- 0 7	+ 0.1	- 0 5	1.8	0 39 53.1	53.2	- 0.1	
51	+ 5 34	- 0.2	+ 5 35	2.0	0 45 33.8	33.0	+ 0.8	
52	6 7	0.3	6 8	2.0	0 46 6.7	6.0	+ 0.7	
53	2 7	0.1	2 8	2.0	0 42 6.9	6.0	+ 0.9	
54	3 26	0.3	3 27	2.0	0 43 25.7	25.0	+ 0.7	
55	4 17	0.2	4 18	2.0	0 44 16.8	16.0	+ 0.8	
56	5 26	0.3	....	...	0 45 25.7	....	....
57	+ 0 47	0.4	+ 0 48	2.2	0 40 46.6	45.8	+ 0.8	
58	- 0 14	0.4	- 0 13	2.2	0 39 45.6	44.8	+ 0.8	
59	+ 9 20	0.8	+ 9 21	2.5	0 49 19.2	18.5	+ 0.7	
60	8 26	0.8	8 26	2.5	0 48 25.2	23.5	+ 1.7	
61	5 16	0.7	5 17	2.4	0 45 15.3	14.6	+ 0.7	
62	0 16	0.5	0 17	2.4	0 40 15.5	14.6	+ 0.9	
63	5 51	0.8	5 52	2.5	0 45 50.2	49.5	+ 0.7	
64	2 43	0.7	2 44	2.5	0 42 42.3	41.5	+ 0.8	
65	1 6	0.6	1 7	2.5	0 41 5.4	4.5	+ 0.9	
66	1 22	0.7	1 24	2.5	0 41 21.3	21.5	- 0.2	
67	7 51	0.9	7 52	2.1	0 47 50.1	49.9	+ 0.2	
68	6 13	0.9	6 14	2.6	0 46 12.1	11.4	+ 0.7	
69	2 13	0.8	2 4	2.5	0 42 12.2	11.5	+10.7	
70	9 24	1.1	9 24	2.8	0 49 22.9	21.2	+ 1.7	
71	8 37	1.1	8 38	2.8	0 48 35.9	35.2	+ 0.7	
72	1 31	0.9	1 32	2.7	0 41 30.1	29.3	+ 0.8	
73	1 37	0.9	1 38	2.7	0 41 36.1	35.3	+ 0.8	
74	2 42	1.0	2 44	2.7	0 42 41.0	41.3	- 0.3	
75	6 18	1.2	6 19	2.9	0 46 16.8	16.1	+ 0.7	
76	7 32	1.3	7 33	3.0	0 47 30.7	30.0	+ 0.7	
77	7 49	1.4	7 51	3.0	0 47 47.6	48.0	- 0.4	
78	11 3	1.6	11 3	3.2	0 50 61.4	59.8	+ 1.6	
79	2 10	1.3	2 13	3.1	0 42 8.7	9.9	- 1.2	
80	9 29	1.6	9 32	3.2	0 49 27.4	28.8	- 1.4	
81	3 53	1.4	3 55	3.1	0 43 51.6	51.9	- 0.3	
82	1 40	1.3	1 41	3.1	0 41 38.7	37.9	+ 0.8	
83	3 20	1.4	3 22	3.2	0 43 18.6	18.8	- 0.2	
84	10 43	1.8	10 43	3.4	0 50 41.2	39.6	+ 1.6	
85	2 51	1.5	2 53	3.3	0 42 49.5	49.7	- 0.2	
86	10 39	1.8	10 38	3.5	0 50 37.2	34.5	+ 2.7	
87	11 3	1.9	11 2	3.5	0 50 61.1	58.5	+ 2.6	
88	5 27	1.7	5 28	3.4	0 45 25.3	24.6	+ 0.7	
89	5 27	1.8	5 29	3.5	0 45 25.2	25.5	- 0.3	
90	+ 7 7	- 1.9	+ 7 8	- 3.6	+ 0 47 5.1	4.4	+ 0.7	

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 134.						ZONE 135.						MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	Zone 134.		Zone 135.		
		h.	m.	s.	s.	s.		h.	m.	s.	s.	s.		h.	m.	s.	s.	
91	11	18	55	27.5	31.6	27.55	+0.24	18	55	26.8	30.8	26.80	+0.93	18	55	27.79	27.73	+0.06
92	11-12		55	50.8	54.8	50.80	0.24		55	50.0	54.1	50.05	0.93		55	51.04	50.98	+0.06
93	12		56	4.6	8.5	4.55	0.24		56	3.6	7.8	3.70	0.93		56	4.79	4.63	+0.16
94	11-12		56	5.7	9.7	5.70	0.24		56	....	9.0	5.00	0.93		56	5.94	5.93	+0.01
95	12		58	3.3	7.3	3.30	0.23		58	2.5	6.5	2.50	0.92		58	3.53	3.42	+0.11
96	12-13		58	26.5	30.6	26.55	0.23		58	25.7	29.7	25.70	0.92		58	26.78	26.62	+0.16
97	11		58	52.3	....	52.30	0.22		58	51.7	55.5	51.60	0.91		58	52.52	52.51	+0.01
98	10		59	2.3	6.3	2.30	0.22		59	1.6	5.5	1.55	0.91		59	2.52	2.46	+0.06
99	12		59	5.4	9.4	5.40	0.22		59	4.6	8.6	4.60	0.91		59	5.62	5.51	+0.11
100	11	18	59	....	12.0	8.00	0.22	18	59	....	11.2	7.20	0.91	18	59	8.22	8.11	+0.11
101	9-10	19	0	3.5	7.3	3.40	0.22	19	0	2.7	6.5	2.60	0.91	19	0	3.62	3.51	+0.11
102	10		0	4.6	8.4	4.50	0.22		0	3.8	7.8	3.80	0.91		0	4.72	4.71	+0.01
103	10-11		0	38.0	42.1	38.05	0.22		0	37.4	41.3	37.35	0.91		0	38.27	38.26	+0.01
104	10-11		0	39.6	43.8	39.70	0.22		0	39.0	42.9	38.95	0.91		0	39.92	39.86	+0.06
105	10-11		0	56.3	60.1	56.20	0.22		0	55.5	59.5	55.50	0.91		0	56.42	56.41	+0.01
106	12		1	3.5	7.4	3.45	0.22		1	2.8	6.8	2.80	0.91		1	3.67	3.71	-0.04
107	11-12		1	9.2	13.2	9.20	0.21		1	8.5	12.4	8.45	0.90		1	9.41	9.35	+0.06
108	10		1	40.5	44.6	40.55	0.21		1	39.9	43.8	39.85	0.90		1	40.76	40.75	+0.01
109	9-10		2	7.2	11.1	7.15	0.21		2	6.4	10.4	6.40	0.90		2	7.36	7.30	+0.06
110	9		2	27.0	30.9	26.95	0.21		2	26.4	30.4	26.40	0.90		2	27.16	27.30	-0.14
111	10-11		2	43.2	47.2	43.20	0.21		2	42.6	46.5	42.55	0.90		2	43.41	43.45	-0.04
112	8		2	56.6	60.6	56.60	0.21		2	55.9	59.8	55.85	0.90		2	56.81	56.75	+0.06
113	9		3	16.6	20.5	16.55	0.21		3	16.0	20.0	16.00	0.90		3	16.76	16.90	-0.14
114	....		4	2.0	5.6	1.80	0.20		4	1.4	5.5	1.45	0.89		4	2.00	2.34	....
115	10-11		4	50.3	54.5	50.40	0.20		4	49.7	53.8	49.75	0.89		4	50.60	50.64	-0.04
116	8-9		4	53.8	57.7	53.75	0.20		4	53.1	57.1	53.10	0.89		4	53.95	53.99	-0.04
117	12		5	27.9	31.8	27.85	0.20		5	27.2	31.3	27.25	0.89		5	28.05	28.14	-0.09
118	12		5	....	35.5	31.50	0.20		5	....	34.9	30.90	0.89		5	31.70	31.79	-0.09
119	12		6	12.7	....	12.70	0.19		6	11.8	....	11.80	0.88		6	12.89	12.68	+0.21
120	11		6	16.9	20.9	16.90	0.19		6	16.1	20.1	16.10	0.88		6	17.09	16.98	+0.11
121	10-11		6	40.7	44.8	40.75	0.19		6	39.9	44.0	39.95	0.88		6	40.94	40.83	+0.11
122	12-13		6	47.9	51.8	47.85	0.19		6	47.0	50.9	46.95	0.88		6	48.04	47.83	+0.21
123	12		7	5.6	9.6	5.60	0.19		7	5.0	9.0	5.00	0.88		7	5.79	5.88	-0.09
124	11-12		7	36.9	40.9	36.90	0.19		7	36.1	40.2	36.15	0.88		7	37.09	37.03	+0.06
125	12		7	38.4	42.3	38.35	0.19		7	37.6	41.7	37.65	0.88		7	38.54	38.53	+0.01
126	12		8	2.8	6.8	2.80	0.19		8	2.0	6.1	2.05	0.88		8	2.99	2.93	+0.06
127	12		8	9.3	13.3	9.30	0.19		8	8.7	12.7	8.70	0.88		8	9.49	9.58	-0.09
128	12		8	33.3	37.3	33.30	0.19		8	32.6	36.6	32.60	0.88		8	33.49	33.48	+0.01
129	10		9	41.4	45.3	41.35	0.18		9	40.7	44.6	40.65	0.87		9	41.53	41.52	+0.01
130	11		9	52.7	....	52.70	0.18		9	52.0	56.1	52.05	0.87		9	52.88	52.92	-0.04
131	8		10	4.4	8.3	4.35	0.18		10	3.6	7.7	3.65	0.87		10	4.53	4.52	+0.01
132	5		11	21.9	26.0	21.95	0.17		11	21.3	25.2	21.25	0.86		11	22.12	22.11	+0.01
133	9		11	47.3	51.3	47.30	0.17		11	46.7	50.8	46.75	0.86		11	47.47	47.61	-0.14
134	12		12	6.4	10.4	6.40	0.17		12	5.8	9.7	5.75	0.86		12	6.57	6.51	+0.06
135	12	19	12	14.2	18.3	14.25	+0.17	19	12	13.6	17.7	13.65	+0.86	19	12	14.42	14.51	-0.09

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 134.	d.	Zone 135.	d.	Zone 134.	Zone 135.		
91	+ 9 43	- 2.0	+ 9 45	- 3.6	+ 0 49 41.0	41.4	- 0.4	{ Several stars unobserved. Stars come in groups. Comp., s. p. 12".
92	7 50	1.9	7 50	3.6	0 47 48.1	46.4	+ 1.7	
93	1 40	1.7	1 42	3.5	0 41 38.3	38.5	- 0.2	
94	2 27	1.7	2 29	3.6	0 42 25.3	25.4	- 0.1	
95	0 45	1.9	0 48	3.7	0 40 43.1	44.3	- 1.2	
96	8 48	2.2	8 49	3.9	0 48 45.8	45.1	+ 0.7	
97	10 22	2.3	10 24	4.0	0 50 19.7	20.0	- 0.3	
98	2 42	2.0	2 45	3.9	0 42 40.0	41.1	- 1.1	
99	1 59	2.0	2 1	3.9	0 41 57.0	57.1	- 0.1	
100	7 40	2.2	7 42	4.0	0 47 37.8	38.0	- 0.2	
101	1 54	2.1	1 58	4.0	0 41 51.9	54.0	- 2.1	{ Nebula 1' diameter; perhaps resolv- able; discovered by Hind in 1845, and independently by d'Arrest. Innumerable small stars in the fields following it.
102	9 40	2.4	9 42	4.1	0 49 37.6	37.9	- 0.3	
103	0 34	2.1	0 36	4.0	0 40 31.9	32.0	- 0.1	
104	7 50	2.4	7 51	4.1	0 47 47.6	46.9	+ 0.7	
105	8 27	2.4	8 30	4.1	0 48 24.6	25.9	- 1.3	
106	4 31	2.3	4 34	4.1	0 44 28.7	29.9	- 1.2	
107	5 36	2.3	5 38	4.1	0 45 33.7	33.9	- 0.2	
108	0 51	2.2	0 54	4.1	0 40 48.8	49.9	- 1.1	
109	7 8	2.5	7 8	4.2	0 47 5.5	3.8	+ 1.7	
110	2 8	2.3	2 9	4.2	0 42 5.7	4.8	+ 0.9	
111	7 4	2.5	7 5	4.3	0 47 1.5	0.7	+ 0.8	{ Comp., n. f. 10".
112	2 29	2.4	2 31	4.2	0 42 26.6	26.8	- 0.2	
113	6 17	2.6	6 18	4.3	0 46 14.4	13.7	+ 0.7	
114	8 20	2.7	8 15	4.4	0 48 17.3	10.6	- 6.7	
115	0 49	2.5	0 50	4.3	0 40 46.5	45.7	+ 0.8	
116	0 59	2.5	1 1	4.4	0 40 56.5	56.6	- 0.1	
117	4 49	2.7	4 52	4.5	0 44 46.3	47.5	+ 0.8	
118	5 28	2.7	5 29	4.5	0 45 25.3	24.5	+ 0.8	
119	1 5	2.6	1 10	4.5	0 41 2.4	5.5	- 3.1	
120	0 58	2.6	1 2	4.5	0 40 55.4	57.5	- 2.1	
121	6 46	2.9	6 47	4.6	0 46 43.1	42.4	+ 0.7	{ Many stars unobserved.
122	9 24	3.0	9 24	4.7	0 49 21.0	19.3	+ 1.7	
123	3 45	2.8	3 46	4.6	0 43 42.2	41.4	+ 0.8	
124	10 49	3.1	10 59	4.8	0 50 45.9	54.2	- 8.3	
125	5 26	2.9	5 27	4.7	0 45 23.1	22.3	+ 0.8	
126	8 25	3.1	8 27	4.8	0 48 21.9	22.2	- 0.3	
127	4 0	2.9	4 3	4.7	0 43 57.1	58.3	- 1.2	
128	4 0	2.9	4 1	4.8	0 43 57.1	56.2	+ 0.9	
129	5 14	3.1	5 16	4.9	0 45 10.9	11.1	- 0.2	
130	0 35	2.9	0 39	4.8	0 40 32.1	34.2	- 2.1	
131	8 46	3.3	8 47	5.0	0 48 42.7	42.0	+ 0.7	{ Comp., s. 4", 10th mag.
132	9 59	3.4	10 3	5.1	0 49 55.6	57.9	- 2.3	
133	3 58	3.2	4 1	5.1	0 43 54.8	55.9	- 1.1	
134	4 46	3.3	4 47	5.1	0 44 42.7	41.9	+ 0.8	
135	+ 2 41	- 3.2	+ 2 42	- 5.1	+ 0 42 37.8	36.9	+ 0.9	

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. +⁰40 to ⁰50.

Number of the Star.	Magnitude.	ZONE 134.					ZONE 135.					MEAN RIGHT ASCENSION 1859.0	
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.	Zone 135.
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.
91	11	18 55 27.5	31.6	27.55	+0.24		18 55 26.8	30.8	26.80	+0.93		18 55 27.79	
92	11-12	55 50.8	54.8	50.80	0.24		55 50.0	54.1	50.05	0.93		55 51.04	
93	12	56 4.6	8.5	4.55	0.24		56 3.6	7.8	3.70	0.93		56 4.79	
94	11-12	56 5.7	9.7	5.70	0.24		56 . . .	9.0	5.00	0.93		56 5.9	
95	12	58 3.3	7.3	3.30	0.23		58 2.5	6.5	2.50	0.92		58 3.5	
96	12-13	58 26.5	30.6	26.55	0.23		58 25.7	29.7	25.70	0.92		58 26	
97	11	58 52.3	. . .	52.30	0.22		58 51.7	55.5	51.60	0.91		58 51	
98	10	59 2.3	6.3	2.30	0.22		59 1.6	5.5	1.55	0.91		59	
99	12	59 5.4	9.4	5.40	0.22		59 4.6	8.6	4.60	0.91		59	
100	11	18 59 . . .	12.0	8.00	0.22		18 59 . . .	11.2	7.20	0.91		18 59	
101	9-10	19 0 3.5	7.3	3.40	0.22		19 0 2.7	6.5	2.60	0.91		19 0	
102	10	0 4.6	8.4	4.50	0.22		0 3.8	7.8	3.80	0.91			
103	10-11	0 38.0	42.1	38.05	0.22		0 37.4	41.3	37.35	0.91			
104	10-11	0 39.6	43.8	39.70	0.22		0 39.0	42.9	38.95	0.91			
105	10-11	0 56.3	60.1	56.20	0.22		0 55.5	59.5	55.50	0.91			
106	12	1 3.5	7.4	3.45	0.22		1 2.8	6.8	2.80	0.91			
107	11-12	1 9.2	13.2	9.20	0.21		1 8.5	12.4	8.45	0.90			
108	10	1 40.5	44.6	40.55	0.21		1 39.9	43.8	39.85	0.90			
109	9-10	2 7.2	11.1	7.15	0.21		2 6.4	10.4	6.40	0.90			
110	9	2 27.0	30.9	26.95	0.21		2 26.4	30.4	26.40	0.90			
111	10-11	2 43.2	47.2	43.20	0.21		2 42.6	46.5	42.55	0.90			
112	8	2 56.6	60.6	56.60	0.21		2 55.9	59.8	55.85	0.90			
113	9	3 16.6	20.5	16.55	0.21		3 16.0	20.0	16.00	0.90			
114	. . .	4 2.0	5.6	1.80	0.20		4 1.4	5.5	1.45	0.85			
115	10-11	4 50.3	54.5	50.40	0.20		4 49.7	53.8	49.75	0.85			
116	8-9	4 53.8	57.7	53.75	0.20		4 53.1	57.1	53.10	0.85			
117	12	5 27.9	31.8	27.85	0.20		5 27.2	31.3	27.25	0.85			
118	12	5 . . .	35.5	31.50	0.20		5 . . .	34.9	30.90	0.85			
119	12	6 12.7	. . .	12.70	0.19		6 11.8	. . .	11.80	0.85			
120	11	6 16.9	20.9	16.90	0.19		6 16.1	20.1	16.10	0.85			
121	10-11	6 40.7	44.8	40.75	0.19		6 39.9	44.0	39.95	0.85			
122	12-13	6 47.9	51.8	47.85	0.19		6 47.0	50.9	46.95	0.85			
123	12	7 5.6	9.6	5.60	0.19		7 5.0	9.0	5.00	0.85			
124	11-12	7 36.9	40.9	36.90	0.19		7 36.1	40.2	36.10	0.85			
125	12			38.35	0.19		7 37.6	41.7	37.60	0.85			
126	12			2.80	0.19		8 2.0	6.1	2.00	0.85			
127	12			9.30	0.19		8 8.7	12.7	8.70	0.85			
128	12			13.30	0.19		8 32.6	36.6	32.60	0.85			
129	12			13.35	0.18		9 40.7	44.6	40.70	0.85			
130	13			17.70	0.18		9 52.0	56.1	52.00	0.85			
131					0.18		10 3.6	7.7	3.60	0.85			
132					17		11 21.3	25.3	21.30	0.85			
					17		11 46.7	50.7	46.70	0.85			
					17		12 5.8	9	5.80	0.85			
					17		19 12 13.6	17	13.60	0.85			

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. ⁰+0 ⁴⁰40 to ⁰0 ⁵⁰50.

Number of the Star.	Magnitude.	ZONE 134.					ZONE 135.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.	Zone 135.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}
136	9-10	19 13 7.7	11.6	7.65	+0.17		19 13 7.1	10.9	7.00	+0.86		19 13 7.82	7.86	-0.04
137	10	13 8.0	11.9	7.95	0.17		13 7.3	11.2	7.25	0.86		13 8.12	8.11	+0.01
138	12	13 53.0	57.1	53.05	0.16		13 52.4	56.5	52.45	0.85		13 53.21	53.30	-0.09
139	9-10	14 9.3	13.3	9.30	0.16		14 8.5	12.7	8.60	0.85		14 9.46	9.45	+0.01
140	12	14 12.4	16.2	12.30	0.16		14 11.7	15.6	11.65	0.85		14 12.46	12.50	-0.04
141	12	14 26.9	30.9	26.90	0.16		14 26.3	30.2	26.25	0.85		14 27.06	27.10	-0.04
142	12-13	14 29.4	33.5	29.45	0.16		.....	.....	.....	.....		14 29.61	.....	.....
143	12	14 58.7	62.8	58.75	0.16		.....	.....	.....	.....		14 58.91	.....	.....
144	10	15 19.7	23.8	19.75	0.16		15 19.0	22.9	18.95	0.85		15 19.91	19.80	+0.11
145	11	15 41.9	45.8	41.85	0.16		15 41.3	45.2	41.25	0.85		15 42.01	42.10	-0.09
146	11	15 52.3	56.3	52.30	0.16		15 51.6	55.8	51.70	0.85		15 52.46	52.55	-0.09
147	12	16 44.7	48.8	44.75	0.15		16 44.0	48.0	44.00	0.84		16 44.90	44.84	+0.06
148	11-12	17 9.3	13.9	9.60	0.15		17 9.0	13.1	9.05	0.84		17 9.75	9.89	-0.14
149	12	17	16.7	12.70	0.15		17 12.0	16.0	12.00	0.84		17 12.85	12.84	+0.01
150	11	17 21.4	25.3	21.35	0.15		17 20.7	24.6	20.65	0.84		17 21.50	21.49	+0.01
151	..	.....	.....	.....	.....		17 26.3	30.3	26.30	0.84		17	27.14	.....
152	12	17 41.3	45.3	41.30	0.15		.....	.....	.....	.....		17 41.45	.....	.....
153	10-11	17 47.1	51.2	47.15	0.15		17 46.3	50.4	46.35	0.84		17 47.30	47.19	+0.11
154	11	18 1.4	5.5	1.45	0.15		18 0.8	4.8	0.80	0.84		18 1.60	1.64	-0.04
155	11-12	18 28.8	32.7	28.75	0.15		18 28.1	32.0	28.05	0.84		18 28.90	28.89	+0.01
156	11-12	18 44.4	48.5	44.45	0.14		18 43.9	47.8	43.85	0.83		18 44.59	44.68	-0.09
157	12	19 5.4	9.6	5.50	0.14		19 4.9	8.8	4.85	0.83		19 5.64	5.68	-0.04
158	12	19 22.4	26.4	22.40	0.14		19 21.7	25.7	21.70	0.83		19 22.54	22.53	+0.01
159	12	19 44.7	48.8	44.75	0.14		19 44.0	48.0	44.00	0.83		19 44.89	44.83	+0.06
160	10-11	20 8.5	12.6	8.55	0.14		20 7.9	11.8	7.85	0.83		20 8.69	8.68	+0.01
161	11	20 30.9	35.1	31.00	0.14		20 30.2	34.2	30.20	0.83		20 31.14	31.03	+0.11
162	10	20 35.7	39.6	35.65	0.14		20 34.9	38.8	34.85	0.83		20 35.79	35.68	+0.11
163	11	21 9.1	13.1	9.10	0.13		.....	.....	.....	.....		21 9.23	.....	.....
164	12	22 4.3	8.2	4.25	0.13		22 3.5	7.5	3.50	0.82		22 4.38	4.32	+0.06
165	9-10	22 54.5	58.6	54.55	0.13		22 53.6	57.7	53.65	0.82		22 54.68	54.47	+0.21
166	11	22 57.0	61.0	57.00	0.13		22 56.2	60.2	56.20	0.82		22 57.13	57.02	+0.11
167	9-10	23 6.9	11.0	6.95	0.12		23 6.1	10.2	6.15	0.82		23 7.07	6.97	+0.10
168	10	23 29.1	33.0	29.05	0.12		23 28.2	32.3	28.25	0.81		23 29.17	29.06	+0.11
169	10	23 40.0	44.1	40.05	0.12		23 39.3	43.4	39.35	0.81		23 40.17	40.16	+0.01
170	10-11	24 7.9	11.9	7.90	0.12		24 7.1	11.2	7.15	0.81		24 8.02	7.96	+0.06
171	12	24 25.9	30.0	25.95	0.12		24 25.1	29.1	25.10	0.81		24 26.07	25.91	+0.16
172	12	24 50.2	54.1	50.15	0.12		24 49.4	53.5	49.45	0.81		24 50.27	50.26	+0.01
173	12	25 49.6	53.4	49.50	0.11		25 48.7	52.7	48.70	0.80		25 49.61	49.50	+0.11
174	11-12	26 2.5	6.5	2.50	0.11		26 1.7	5.7	1.70	0.80		26 2.61	2.50	+0.11
175	11	26	10.6	6.60	0.11		26 6.2	10.0	6.10	0.80		26 6.71	6.90	-0.19
176	12	26 53.2	57.3	53.25	0.11		26 52.7	56.6	52.65	0.80		26 53.36	53.45	-0.09
177	12	27 12.9	16.9	12.90	0.10		27 12.1	16.1	12.10	0.79		27 13.00	12.89	+0.11
178	11-12	.....	.....	.....	.....		28 44.6	.....	44.60	0.79		28	45.39	.....
179	11	28 47.4	51.3	47.35	0.10		28 46.8	50.7	46.75	0.79		28 47.45	47.54	-0.09
180	12	19 28 48.0	52.2	48.10	+0.10		19 28 47.3	51.6	47.45	+0.79		19 28 48.20	48.24	-0.04

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 134.	d.	Zone 135.	d.	Zone 134.	Zone 135.		
136	+ 0 55	- 3.2	+ 0 56	- 5.1	+ 0 40 51.8	50.9	+ 0.9	Great number of small stars.
137	1 3	3.2	1 5	5.1	0 40 59.8	59.9	- 0.1	
138	6 48	3.5	6 49	5.3	0 46 44.5	43.7	+ 0.8	
139	3 51	3.4	3 53	5.3	0 43 47.6	47.7	- 0.1	
140	2 10	3.4	2 12	5.3	0 42 6.6	6.7	- 0.1	
141	4 46	3.5	4 47	5.4	0 44 42.5	41.6	+ 0.9	
142	3 44	3.4	3 47	5.3	0 43 40.6	41.7	- 1.1	
143	9 24	3.7	9 29	5.5	0 49 20.3	23.5	- 3.2	
144	4 46	3.5	4 46	5.4	0 44 42.5	40.6	+ 1.9	
145	2 44	3.5	2 46	5.4	0 42 40.5	40.6	- 0.1	
146	4 50	3.6	4 52	5.5	0 44 46.4	46.5	- 0.1	
147	+ 9 9	3.9	+ 9 9	5.7	0 49 5.1	3.3	+ 1.8	
148	- 0 19	3.5	- 0 19	5.5	0 39 37.5	35.5	+ 2.0	
149	+ 0 5	3.6	+ 0 6	5.5	0 40 1.4	0.5	+ 0.9	
150	3 54	3.7	3 56	5.6	0 43 50.3	50.4	- 0.1	
151	.....	...	7 56	5.7	0 47	50.3	.....
152	7 54	3.9	.....	...	0 47 50.1	.....	.....
153	6 37	3.9	6 39	5.7	0 46 33.1	33.3	- 0.2	
154	1 39	3.7	1 42	5.6	0 41 35.3	36.4	- 1.1	
155	4 30	3.8	4 31	5.7	0 44 26.2	25.3	+ 0.9	
156	9 4	4.0	9 7	5.9	0 49 0.0	1.1	- 1.1	Double?
157	3 10	3.8	3 12	5.8	0 43 6.2	6.2	0.0	
158	4 18	3.9	4 22	5.8	0 44 14.1	16.2	- 2.1	
159	5 52	4.0	5 56	5.9	0 45 48.0	50.1	- 2.1	
160	9 56	4.2	9 57	6.0	0 49 51.8	51.0	+ 0.8	Field filled with small stars.
161	9 15	4.2	9 16	6.0	0 49 10.8	10.0	+ 0.8	
162	10 30	4.3	10 30	6.1	0 50 25.7	23.9	+ 1.8	
163	11 10	4.4	.....	...	0 51 5.6	.....	.....
164	1 44	4.1	1 46	6.0	0 41 39.9	40.0	- 0.1	
165	5 44	4.3	5 46	6.2	0 45 39.7	39.8	- 0.1	Comp., s. p. 15", s. f. 10". Comp., f. 12".
166	9 21	4.5	9 23	6.3	0 49 16.5	16.7	- 0.2	
167	4 11	4.3	4 13	6.2	0 44 6.7	6.8	- 0.1	
168	8 42	4.5	8 44	6.3	0 48 37.5	37.7	- 0.2	
169	5 26	4.4	5 17	6.2	0 45 21.6	10.8	+ 10.8	
170	6 13	4.4	6 15	6.3	0 46 8.6	8.7	- 0.1	
171	5 0	4.4	5 1	6.3	0 44 55.6	54.7	+ 0.9	
172	1 29	4.3	1 31	6.3	0 41 24.7	24.7	0.0	
173	3 59	4.5	4 1	6.4	0 43 54.5	54.6	- 0.1	
174	10 11	4.8	10 13	6.5	0 50 6.2	6.5	- 0.3	
175	8 26	4.7	8 26	6.5	0 48 21.3	19.5	+ 1.8	
176	10 38	4.9	10 38	6.6	0 50 33.1	31.4	+ 1.7	
177	7 57	4.8	7 59	6.6	0 47 52.2	52.4	- 0.2	
178	+ 8 16	5.0	+ 8 17	6.6	0 48 11.0	10.4	+ 0.6	
179	- 0 13	4.7	- 0 12	6.5	0 39 42.3	41.5	+ 0.8	
180	+ 0 37	- 4.7	+ 0 40	- 6.5	+ 0 40 32.3	33.5	- 1.2	

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.

Dec. +0 40 to 0 50.

Number of the Star.	Magnitude.	ZONE 134.					ZONE 135.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.			Zone 135.				
										h.	m.	s.	s.	s.	s.		
181	12	19 29 37.3	41.3	37.30	+0.09	19 29 36.4	40.4	36.40	+0.78	19 29 37.39	37.18	+0.21					
182	12	29 39.4	43.4	39.40	0.09	29 38.7	42.6	38.65	0.78	29 39.49	39.43	+0.06					
183	11-12	30 31.8	35.7	31.75	0.09	30 31.0	35.0	31.00	0.78	30 31.84	31.78	+0.06					
184	12	30 47.2	51.3	47.25	0.09	30 46.6	50.6	46.60	0.78	30 47.34	47.38	-0.04					
185	12-13	31 6.9	10.9	6.90	0.09	31 6.2	10.2	6.20	0.78	31 6.99	6.98	+0.01					
186	12	32 7.1	11.0	7.05	0.08	32 6.2	10.3	6.25	0.77	32 7.13	7.02	+0.11					
187	12-13	32 25.9	29.5	25.70	0.08	32 25.0	29.0	25.00	0.77	32 25.78	25.77	+0.01					
188	12-13	32 54.5	58.5	54.50	0.08	32 53.8	57.4	53.60	0.77	32 54.58	54.37	+0.21					
189	11-12	32 57.2	61.0	57.10	0.08	32 56.6	60.4	56.50	0.77	32 57.18	57.27	-0.09					
190	10-11	33 36.3	40.2	36.25	0.08	33 35.5	39.7	35.60	0.77	33 36.33	36.37	-0.04					
191	11	34 36.5	40.7	36.60	0.07	34 35.8	39.8	35.80	0.76	34 36.67	36.56	+0.11					
192	9	34 49.4	53.5	49.45	0.07	34 48.8	52.8	48.80	0.76	34 49.52	49.56	-0.04					
193	8-9	34 55.0	58.9	54.95	0.07	34 54.2	58.3	54.25	0.76	34 55.02	55.01	+0.01					
194	10-11	35 38.6	....	38.60	0.07	35 37.8	42.0	37.90	0.76	35 38.67	38.66	+0.01				
195	11	35 45.6	49.6	45.60	0.07	.....	.....	.....	.....	35 45.67	.....	.....			
196	10	35 46.1	50.3	46.20	0.07	35 45.6	49.6	45.60	0.76	35 46.27	46.36	-0.09					
197	10	36 4.9	8.9	4.90	0.07	36 4.2	8.3	4.25	0.76	36 4.97	5.01	-0.04					
198	8-9	36 42.7	46.7	42.70	0.06	36 42.1	46.0	42.05	0.75	36 42.76	42.80	-0.04					
199	11-12	36 60.0	63.9	59.95	0.06	36 59.3	60.2	59.25	0.75	37 0.01	0.00	+0.01					
200	11-12	37 13.5	17.4	13.45	0.06	37 12.7	16.6	12.65	0.75	37 13.51	13.40	+0.11					
201	12	37 15.8	19.8	15.80	0.06	37 15.3	19.0	15.15	0.75	37 15.86	15.90	-0.04					
202	12	37 39.1	43.2	39.15	0.06	37 38.2	42.2	38.20	0.75	37 39.21	38.95	+0.26					
203	12-13	38 51.3	55.4	51.35	0.05	38 50.3	54.5	50.40	0.74	38 51.40	51.14	+0.26					
204	12-13	39 2.9	6.8	2.85	0.05	39 1.6	5.8	1.70	0.74	39 2.90	2.44	+0.46					
205	12-13	39 20.7	24.7	20.70	0.05	39 19.9	24.0	19.95	0.74	39 20.75	20.69	+0.06					
206	12	39 33.0	37.2	33.10	0.05	39 32.5	36.4	32.45	0.74	39 33.15	33.19	-0.04					
207	10-11	39 53.3	57.4	53.35	0.05	39 52.5	56.3	52.40	0.74	39 53.40	53.14	+0.26					
208	7	40 23.0	27.2	23.10	0.05	40 22.4	26.4	22.40	0.74	40 23.15	23.14	+0.01					
209	11	40 28.7	32.8	28.75	0.05	40 28.0	32.3	28.15	0.74	40 28.80	28.89	-0.09					
210	10-11	40	37.2	33.20	0.05	40 32.7	36.5	32.60	0.74	40 33.25	33.34	-0.09					
211	....	40 58.3	62.4	58.35	0.05	.....	.....	.....	.....	40 58.40	.....	.....			
212	11-12	41 18.1	22.0	18.05	0.04	41 17.2	21.3	17.25	0.74	41 18.09	17.99	+0.10					
213	12	42 3.2	7.2	3.20	0.04	42 2.5	6.6	2.55	0.73	42 3.24	3.28	-0.04					
214	12-13	42 29.3	33.3	29.30	0.04	42 28.6	32.6	28.60	0.73	42 29.34	29.33	+0.01					
215	10-11	43 32.3	36.4	32.35	0.04	43 31.7	35.8	31.75	0.73	43 32.39	32.48	-0.09					
216	11-12	43 53.0	57.0	53.00	0.03	43 52.2	56.3	52.25	0.72	43 53.03	52.97	+0.06					
217	11-12	43 55.1	59.1	55.10	0.03	43 54.4	58.5	54.45	0.72	43 55.13	55.17	-0.04					
218	12	43	61.1	57.10	0.03	43	60.7	56.70	0.72	43 57.13	57.42	-0.29					
219	10-11	44 34.5	38.6	34.55	0.03	44 33.8	37.9	33.85	0.72	44 34.58	34.57	+0.01					
220	10	44 45.3	49.3	45.30	0.03	44 44.6	48.6	44.60	0.72	44 45.33	45.32	+0.01					
221	10-11	44 55.2	59.3	55.25	0.03	44 54.5	58.6	54.55	0.72	44 55.28	55.27	+0.01					
222	12	45 2.4	6.4	2.40	0.03	45	5.7	1.70	0.72	45 2.43	2.42	+0.01					
223	12	46 14.3	18.5	14.40	0.02	46 13.7	17.8	13.75	0.71	46 14.42	14.46	-0.04					
224	12	46 28.8	32.8	28.80	0.02	46 27.9	31.9	27.90	0.71	46 28.82	28.61	+0.21					
225	8-9	19 46 45.7	49.7	45.70	+0.02	19 46 45.0	49.0	45.00	+0.71	19 46 45.72	45.71	+0.01					

A.R. $\overset{h.}{18} \overset{m.}{10}$ to $\overset{h.}{20} \overset{m.}{27}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 184.	d.	Zone 185.	d.	Zone 184.	Zone 185.		
181	+ 6 50	- 5.0	+ 6 50	- 6.8	+ 0 46 45.0	43.2	+ 1.8	Comp., p. 10".
182	10 9	5.2	10 9	6.9	0 50 3.8	2.1	+ 1.7	
183	7 53	5.2	7 56	6.9	0 47 47.8	49.1	- 1.3	
184	3 33	5.0	3 36	6.9	0 43 28.0	29.1	- 1.1	
185	7 19	5.2	7 20	7.0	0 47 13.8	13.0	+ 0.8	
186	7 16	5.3	7 16	7.1	0 47 10.7	8.9	+ 1.8	
187	7 16	5.3	7 17	7.1	0 47 10.7	9.9	+ 0.8	
188	3 54	5.2	3 56	7.1	0 43 48.8	48.9	- 0.1	
189	2 44	5.2	2 47	7.1	0 42 38.8	39.9	- 1.1	
190	9 34	5.5	9 34	7.3	0 49 28.5	26.7	+ 1.8	
191	0 0	5.2	0 3	7.2	0 39 54.8	55.8	- 1.0	
192	5 11	5.4	5 13	7.3	0 45 5.6	5.7	- 0.1	
193	9 16	5.6	9 16	7.4	0 49 10.4	8.6	+ 1.8	
194	8 14	5.6	8 15	7.4	0 48 8.4	7.6	+ 0.8	
195	3 19	5.4	3 20	7.4	0 43 13.6	12.6	+ 1.0	
196	10 23	5.7	10 24	7.5	0 50 17.3	16.5	+ 0.8	
197	0 19	5.4	0 22	7.3	0 40 13.6	14.7	- 1.1	
198	10 59	5.8	10 59	7.6	0 50 53.2	51.4	+ 1.8	
199	3 24	5.6	3 26	7.5	0 43 18.4	18.5	- 0.1	
200	2 1	5.5	2 3	7.5	0 41 55.5	55.5	0.0	
201	0 0	5.5	0 2	7.4	0 39 54.5	54.6	- 0.1	Comp., n. p. 10".
202	4 51	5.7	4 53	7.6	0 44 45.3	45.4	- 0.1	
203	10 20	6.0	10 21	7.8	0 50 14.0	13.2	+ 0.8	
204	9 1	6.0	9 1	7.8	0 48 55.0	53.2	+ 1.8	
205	6 2	5.9	6 2	7.8	0 45 56.1	54.2	+ 1.9	
206	5 57	5.9	5 58	7.8	0 45 51.1	50.2	+ 0.9	
207	7 28	6.0	7 29	7.8	0 47 22.0	21.2	+ 0.8	
208	5 19	6.0	5 22	7.8	0 45 13.0	14.2	- 1.2	
209	4 18	5.9	4 19	7.8	0 44 12.1	11.2	+ 0.9	
210	2 47	5.9	2 48	7.8	0 42 41.1	40.2	+ 0.9	
211	....	...	3 17	7.9	0 43	9.1	...
212	4 25	6.0	4 26	7.9	0 44 19.0	18.1	+ 0.9	
213	8 52	6.3	8 53	8.1	0 48 45.7	44.9	+ 0.8	
214	7 1	6.2	7 2	8.1	0 46 54.8	53.9	+ 0.9	
215	1 38	6.1	1 39	8.0	0 41 31.9	31.0	+ 0.9	
216	2 7	6.2	2 9	8.1	0 42 0.8	0.9	- 0.1	
217	4 5	6.3	4 5	8.1	0 43 58.7	56.9	+ 1.8	
218	2 31	6.2	2 34	8.1	0 42 24.8	25.9	+ 0.9	
219	5 26	6.4	5 27	8.2	0 45 19.6	18.8	+ 0.8	
220	1 48	6.3	1 48	8.2	0 41 41.7	39.8	+ 1.9	
221	9 0	6.5	9 1	8.3	0 48 53.5	52.7	+ 0.8	
222	2 56	6.3	2 56	8.2	0 42 49.7	47.8	+ 1.9	
223	0 26	6.3	0 26	8.3	0 40 19.7	17.7	+ 2.0	
224	2 1	6.4	2 3	8.3	0 41 54.6	54.7	- 0.1	
225	+10 3	- 6.7	+10 3	- 8.5	+ 0 49 56.3	54.5	+ 1.8	

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 134.					ZONE 135.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.	Zone 135.			
226	9-10	h. m. s. 19 47 4.8	s. 9.0	s. 4.90	+0.02	h. m. s. 19 47 4.1	s. 8.3	s. 4.20	+0.71	h. m. s. 19 47 4.92	s. 4.91	+0.01		
227	11-12	47 45.9	50.1	46.00	0.02	47 45.1	....	45.10	0.71	47 46.02	45.81	+0.21	
228	11-12	48 1.5	5.3	1.40	0.02	.....	.....	.....	.....	48 1.42	.....	...
229	11-12	48 2.1	6.1	2.10	0.02	48 1.5	5.4	1.45	0.71	48 2.12	2.16	-0.04		
230	10-11	48 10.2	14.1	10.15	0.02	48 9.5	13.6	9.55	0.71	48 10.17	10.26	-0.09		
231	10-11	48 33.0	37.1	33.05	0.02	48 32.4	36.4	32.40	0.71	48 33.07	33.11	-0.04		
232	9-10	49 9.0	13.0	9.00	0.01	49 8.2	12.3	8.25	0.70	49 9.01	8.95	+0.06		
233	10-11	49 11.7	15.7	11.70	0.01	49 10.8	14.7	10.75	0.70	49 11.71	11.45	+0.26		
234	11	49 32.3	36.3	32.30	0.01	49 31.5	....	31.50	0.70	49 32.31	32.20	+0.11	
235	12	49 35.9	39.9	35.90	0.01	49 35.1	....	35.10	0.70	49 35.91	35.80	+0.11	
236	10	49 47.7	51.6	47.65	0.01	49 46.8	50.8	46.80	0.70	49 47.66	47.50	+0.16		
237	..	.....	.....	.....	.....	50 9.4	13.3	9.35	0.70	50	10.05	....	
238	11	50 26.2	30.0	26.10	0.01	50 25.2	29.4	25.30	0.70	50 26.11	26.00	+0.11		
239	12	50 30.4	34.7	30.55	0.01	50 29.9	33.9	29.90	0.70	50 30.56	30.60	-0.04		
240	11	50 37.7	41.7	37.70	+0.01	50 37.0	41.1	37.05	0.70	50 37.71	37.75	-0.04		
241	10-11	51 24.8	28.7	24.75	0.00	51 24.1	....	24.10	0.69	51 24.75	24.79	-0.04	
242	12	51 26.8	30.6	26.70	0.00	.....	.....	.....	.....	51 26.70	.....	....
243	12	51 43.0	47.2	43.10	0.00	.....	.....	.....	.....	51 43.10	.....	....
244	11	51 46.2	50.1	46.15	0.00	.....	.....	.....	.....	51 46.15	.....	....
245	12	52 26.1	30.2	26.15	0.00	.....	.....	.....	.....	52 26.15	.....	....
246	12	52 34.6	38.7	34.65	0.00	.....	.....	.....	.....	52 34.65	.....	....
247	9-10	53 15.0	18.8	14.90	-0.01	53 14.1	18.2	14.15	0.69	53 14.89	14.84	+0.05		
248	10	53	22.3	18.30	0.01	53	21.6	17.60	0.69	53 18.29	18.29	0.00		
249	12	53 52.3	56.2	52.25	0.01	53 51.4	55.5	51.45	0.68	53 52.24	52.13	+0.11		
250	12	53 57.8	61.9	57.85	0.01	53 57.1	61.1	57.10	0.68	53 57.84	57.78	+0.06		
251	12	54 10.5	14.4	10.45	0.01	54 9.8	13.9	9.85	0.68	54 10.44	10.53	-0.09		
252	11	54 15.2	19.1	15.15	0.01	54 14.3	18.3	14.30	0.68	54 15.14	14.98	+0.16		
253	10	54 37.8	41.9	37.85	0.01	54 37.1	41.1	37.10	0.68	54 37.84	37.78	+0.06		
254	9	54 39.1	43.1	39.10	0.01	54 38.3	42.2	38.25	0.68	54 39.09	38.93	+0.16		
255	9-10	54 57.6	61.6	57.60	0.01	54 56.7	60.9	56.80	0.68	54 57.59	57.48	+0.11		
256	9	55 37.0	41.0	37.00	0.02	55 36.3	....	36.30	0.68	55 36.98	36.98	0.00	
257	9-10	55 37.3	41.3	37.30	0.02	55	40.4	36.40	0.68	55 37.28	37.08	+0.20		
258	10	56 10.2	14.1	10.15	0.02	56 9.4	13.4	9.40	0.68	56 10.13	10.08	+0.05		
259	11	57 8.0	12.1	8.05	0.03	57 7.2	11.3	7.25	0.67	57 8.02	7.92	+0.10		
260	11	57 18.2	....	18.20	0.03	57 17.3	21.5	17.40	0.67	57 18.17	18.07	+0.10	
261	10-11	57 22.2	26.2	22.20	0.03	57	25.4	21.40	0.67	57 22.17	22.07	+0.10		
262	8	57 36.2	40.1	36.15	0.03	57 35.5	39.4	35.45	0.67	57 36.12	36.12	0.00		
263	10	58 17.1	21.2	17.15	0.03	58 16.6	20.5	16.55	0.67	58 17.12	17.22	-0.10		
264	11-12	58 24.3	28.3	24.30	0.03	58 23.7	27.8	23.75	0.67	58 24.27	24.42	-0.15		
265	10-11	58 54.6	58.5	54.55	0.03	58 53.7	57.7	53.70	0.66	58 54.52	54.36	+0.16		
266	10-11	59 26.0	....	26.00	0.04	59 25.2	29.2	25.20	0.66	59 25.96	25.86	+0.10	
267	9-10	59 28.2	32.1	28.15	0.04	59 27.2	31.3	27.25	0.66	59 28.11	27.91	+0.20		
268	11	59 34.8	38.8	34.80	0.04	59 34.1	38.1	34.10	0.66	59 34.76	34.76	0.00		
269	11-12	19 59 52.0	56.1	52.05	0.04	19 59 51.2	55.2	51.20	0.66	19 59 52.01	51.86	+0.15		
270	11	20 0 16.7	20.7	16.70	-0.04	20 0 15.9	20.0	15.95	+0.66	20 0 16.66	16.61	+0.05		

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 134.	d.	Zone 135.	d.	Zone 134.	Zone 135.		
226	+ 8 10	- 6.7	+ 8 11	- 8.5	+ 0 48 3.3	2.5	+ 0.8	
227	5 8	6.6	5 9	8.5	0 45 1.4	0.5	+ 0.9	
228	3 54	6.6	....	...	0 43 47.4	....	...
229	4 45	6.6	4 48	8.5	0 44 38.4	39.5	- 1.1	
230	5 6	6.6	5 7	8.5	0 44 59.4	58.5	+ 0.9	
231	10 56	6.9	10 58	8.7	0 50 49.1	49.3	- 0.2	
232	0 52	6.5	0 55	8.5	0 40 45.5	46.5	- 1.0	
233	3 50	6.7	3 53	8.6	0 43 43.3	44.4	- 1.1	
234	2 52	6.7	2 52	8.6	0 42 45.3	43.4	+ 1.9	
235	3 55	6.7	3 57	8.6	0 43 48.3	48.4	- 0.1	
236	2 4	6.7	+ 2 5	8.6	0 41 57.3	56.4	+ 0.9	
237	....	...	- 0 13	...	0 39 ....	....	...
238	1 0	6.7	+ 1 3	8.7	0 40 53.3	54.3	- 1.0	
239	2 0	6.7	2 4	8.7	0 41 53.3	55.3	- 2.0	
240	3 10	6.8	3 13	8.7	0 43 3.2	4.3	- 1.1	
241	3 47	6.9	3 48	8.8	0 43 40.1	39.2	+ 0.9	
242	3 40	6.9	....	...	0 43 33.1	....	...
243	3 13	6.9	3 15	8.8	0 43 6.1	6.2	- 0.1	
244	3 44	6.9	3 47	8.9	0 43 37.1	38.1	- 1.0	
245	1 52	6.9	....	...	0 41 45.1	....	...
246	0 40	6.9	....	...	0 40 33.1	....	...
247	0 41	6.9	0 43	8.9	0 40 34.1	34.1	0.0	
248	8 19	7.2	8 19	9.1	0 48 11.8	9.9	+ 1.9	
249	2 25	7.0	2 28	9.0	0 42 18.0	19.0	- 1.0	
250	4 31	7.1	4 33	9.1	0 44 23.9	23.9	0.0	
251	+ 2 13	7.1	+ 2 17	9.1	0 42 5.9	7.9	- 2.0	
252	- 0 4	7.0	- 0 3	9.0	0 39 47.0	48.0	- 1.0	
253	+10 11	7.4	+10 12	9.3	0 50 3.6	2.7	+ 0.9	
254	7 21	7.3	7 21	9.2	0 47 13.7	11.8	+ 1.9	
255	7 2	7.3	7 4	9.2	0 46 54.7	54.8	- 0.1	
256	9 13	7.5	9 15	9.3	0 49 5.5	5.7	- 0.2	
257	4 3	7.3	4 6	9.2	0 43 55.7	56.8	- 1.1	
258	10 17	7.6	10 18	9.4	0 50 9.4	8.6	+ 0.8	
259	10 0	7.6	10 2	9.5	0 49 52.4	52.5	- 0.1	
260	7 20	7.5	7 23	9.5	0 47 12.5	13.5	- 1.0	
261	7 40	7.6	7 41	9.5	0 47 32.4	30.5	+ 1.9	
262	5 48	7.5	5 50	9.4	0 45 40.5	40.6	- 0.1	
263	9 6	7.7	9 7	9.6	0 48 58.3	57.4	+ 0.9	
264	8 28	7.7	8 29	9.6	0 48 20.3	19.4	+ 0.9	
265	10 49	7.8	10 51	9.7	0 50 41.2	41.3	- 0.1	
266	7 52	7.8	7 53	9.7	0 47 44.2	43.3	+ 0.9	
267	0 26	7.5	0 27	9.6	0 40 18.5	17.4	+ 1.1	
268	6 30	7.7	6 31	9.7	0 46 22.3	21.3	+ 1.0	
269	6 42	7.8	6 45	9.7	0 46 34.2	35.3	- 1.1	
270	+ 5 22	- 7.7	+ 5 24	- 9.7	+ 0 45 14.3	14.3	0.0	

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. +⁰40 to ⁰50.

Number of the Star.	Magnitude.	ZONE 134.					ZONE 135.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.		Zone 135.
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}
271	10-11	20 0 17.3	21.3	17.30	-0.04		20 0 16.4	20.6	16.50	+0.66		20 0 17.26	17.16	+0.10
272	10	0 26.2	30.2	26.20	0.04		0 25.4	29.5	25.45	0.66		0 26.16	26.11	+0.05
273	10	0 33.7	37.7	33.70	0.04		0 33.0	36.8	32.90	0.66		0 33.66	33.56	+0.10
274	10	1 13.5	17.6	13.55	0.04		1 12.9	16.8	12.85	0.65		1 13.51	13.50	+0.01
275	11-12	1 18.5	22.5	18.50	0.05		1 17.8	21.7	17.75	0.65		1 18.45	18.40	+0.05
276	10-11	1 24.7	28.8	24.75	0.05		1 23.9	27.8	23.85	0.65		1 24.70	24.50	+0.20
277	11	1 30.3	34.3	30.30	0.05		1 29.5	33.5	29.50	0.65		1 30.25	30.15	+0.10
278	10	2 3.1	7.2	3.15	0.05		2 2.2	6.4	2.30	0.65		2 3.10	2.95	+0.15
279	12-13	2 48.0	52.0	48.00	0.05		2 47.4	51.4	47.40	0.65		2 47.95	48.05	-0.10
280	12	3 49.8	53.8	49.80	0.06		3 49.0	53.1	49.05	0.64		3 49.74	49.69	+0.05
281	11-12	4 13.2	....	13.20	0.06		4 12.5	16.6	12.55	0.64		4 13.14	13.19	-0.05
282	11	4 17.5	21.4	17.45	0.06		4	20.6	16.60	0.64		4 17.39	17.24	+0.15
283	12	4 38.0	42.1	38.05	0.06		4 37.2	41.2	37.20	0.64		4 37.99	37.84	+0.15
284	12	7 23.1	27.1	23.10	0.07		7 22.3	26.4	22.35	0.62		7 23.03	22.97	+0.06
285	12	7 31.5	35.2	31.35	0.07		7 30.6	34.5	30.55	0.62		7 31.28	31.17	+0.11
286	10-11	8 4.9	8.9	4.90	0.07		8 4.1	8.0	4.05	0.62		8 4.83	4.67	+0.16
287	11-12	8 13.3	17.3	13.30	0.07		8 12.5	16.5	12.50	0.62		8 13.23	13.12	+0.11
288	9-10	8 26.3	30.3	26.30	0.07		8 25.7	29.5	25.60	0.62		8 26.23	26.22	+0.01
289	12	8 35.1	39.3	35.20	0.07		.....	.....	.....	.....		8 35.13	.....	.....
290	10	8 48.3	52.1	48.20	0.08		8 47.6	51.6	47.60	0.62		8 48.12	48.22	-0.10
291	11-12	9 17.1	21.1	17.10	0.08		9 16.4	20.4	16.40	0.61		9 17.02	17.01	+0.01
292	8-9	9 35.5	39.5	35.50	0.08		9 34.8	38.8	34.80	0.61		9 35.42	35.41	+0.01
293	12	9 50.8	54.8	50.80	0.08		9 50.2	54.1	50.15	0.61		9 50.72	50.76	-0.04
294	12	10 46.4	50.3	46.35	0.08		10	49.6	45.60	0.61		10 46.27	46.21	+0.06
295	11-12	10 46.9	50.9	46.90	0.08		10 46.2	....	46.20	0.61		10 46.82	46.81	+0.01
296	10-11	11 7.9	11.8	7.85	0.08		11 7.1	11.1	7.10	0.61		11 7.77	7.71	+0.06
297	10-11	11 18.0	22.0	18.00	0.08		11 17.3	21.4	17.35	0.60		11 17.92	17.95	-0.03
298	12	11 40.3	44.3	40.30	0.09		11 39.5	....	39.50	0.60		11 40.21	40.10	+0.11
299	12	11 55.4	59.6	55.50	0.09		11 54.8	58.8	54.80	0.60		11 55.41	55.40	+0.01
300	12	12 0.7	4.8	0.75	0.09		12 0.1	4.2	0.15	0.60		12 0.66	0.75	-0.09
301	11-12	12 13.5	17.5	13.50	0.09		12 12.7	16.8	12.75	0.60		12 13.41	13.35	+0.06
302	9-10	12 57.5	61.6	57.55	0.09		12 56.9	60.9	56.90	0.60		12 57.46	57.50	-0.04
303	11-12	13 14.7	18.7	14.70	0.09		13	17.8	13.80	0.60		13 14.61	14.40	+0.21
304	12	14 6.4	10.5	6.45	0.10		14 5.8	9.7	5.75	0.59		14 6.35	6.34	+0.01
305	10	15 20.3	24.1	20.20	0.10		15 19.5	23.4	19.45	0.59		15 20.10	20.04	+0.06
306	10-11	15 28.4	32.3	28.35	0.10		15 27.5	31.7	27.60	0.59		15 28.25	28.19	+0.06
307	10-11	15 31.2	35.3	31.25	0.10		15 30.4	34.4	30.40	0.59		15 31.15	30.99	+0.16
308	11-12	15 53.6	57.7	53.65	0.10		15 52.6	57.0	52.80	0.59		15 53.55	53.39	+0.16
309	11-12	16 29.1	33.2	29.15	0.11		16 28.5	32.5	28.50	0.58		16 29.04	29.08	-0.04
310	11	17 20.2	24.3	20.25	0.11		17 19.2	23.2	19.20	0.58		17 20.14	19.78	+0.36
311	12	17 29.8	33.9	29.85	0.11		17	33.1	29.10	0.58		17 29.74	29.68	+0.06
312	11-12	17 31.1	35.0	31.05	0.11		.....	.....	.....	.....		17 30.94	.....	.....
313	12	17 50.2	54.4	50.30	0.11		.....	.....	.....	.....		17 50.19	.....	.....
314	12	18 15.7	19.9	15.80	0.11		18 15.1	....	15.10	0.58		18 15.69	15.68	+0.01
315	9	20 18 39.5	43.7	39.60	-0.12		20 18 38.7	42.8	38.75	+0.58		20 18 39.48	39.33	+0.15

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 184.	d.	Zone 185.	d.	Zone 184.	Zone 185.		
271	+ 2 29	- 7.6	+ 2 29	- 9.7	+ 0 42 21.4	19.3	+ 1.9	
272	7 3	7.8	7 3	9.8	0 47 55.2	53.2	+ 2.0	
273	3 4	7.7	3 6	9.7	0 42 56.3	56.3	0.0	
274	3 58	7.8	4 0	9.8	0 43 50.2	50.2	0.0	
275	9 18	8.0	9 19	9.9	0 49 10.0	9.1	+ 0.9	
276	8 42	8.0	8 45	9.9	0 48 34.0	35.1	- 1.1	
277	6 34	7.9	6 36	9.9	0 46 26.1	26.1	0.0	
278	3 39	7.8	3 42	9.9	0 43 31.2	32.1	- 0.9	
279	5 9	8.0	5 9	10.0	0 44 61.0	59.0	+ 2.0	
280	0 1	7.9	0 2	9.9	0 39 53.1	52.1	+ 1.0	
281	+ 1 12	7.9	+ 1 12	10.0	0 41 4.1	2.0	+ 2.1	
282	- 0 5	7.9	- 0 3	10.0	0 39 47.1	47.0	+ 0.1	
283	+ 9 40	8.3	+ 9 41	10.2	0 49 31.7	30.8	+ 0.9	
284	6 49	8.5	6 50	10.4	0 46 40.5	39.6	+ 0.9	Many 12th mag. stars unobserved.
285	9 0	8.6	9 2	10.5	0 48 51.4	51.5	- 0.1	
286	10 59	8.7	10 59	10.5	0 50 50.3	48.5	+ 1.8	
287	9 57	8.7	9 58	10.5	0 49 48.3	47.5	+ 0.8	
288	2 9	8.4	2 10	10.4	0 41 60.6	59.6	+ 1.0	
289	2 30	8.5	....	....	0 42 21.5	....	...
290	0 35	8.4	0 37	10.4	0 40 26.6	26.6	0.0	
291	10 40	8.8	10 40	10.7	0 50 31.2	29.3	+ 1.9	
292	5 3	8.7	5 5	10.6	0 44 54.3	54.4	- 0.1	
293	6 38	8.7	6 39	10.6	0 46 29.3	28.4	+ 0.9	
294	3 26	8.7	3 27	10.6	0 43 17.3	16.4	+ 0.9	
295	10 20	9.0	10 21	10.8	0 50 11.0	10.2	+ 0.8	
296	2 41	8.7	2 43	10.7	0 42 32.3	32.3	0.0	
297	5 27	8.8	5 28	10.7	0 45 18.2	17.3	+ 0.9	
298	8 6	9.0	8 8	10.8	0 47 57.0	57.2	- 0.2	
299	4 34	8.8	4 36	10.8	0 44 25.2	25.2	0.0	
300	6 50	9.0	6 54	10.8	0 46 41.0	43.2	- 2.2	
301	9 59	9.1	10 2	10.9	0 49 49.9	51.1	- 1.2	
302	2 18	8.9	2 20	10.8	0 42 9.1	9.2	- 0.1	
303	0 0	8.8	0 0	10.8	0 39 51.2	49.2	+ 2.0	
304	2 0	8.9	2 2	11.0	0 41 51.1	51.0	+ 0.1	
305	6 22	9.2	6 23	11.2	0 46 12.8	11.8	+ 1.0	
306	3 51	9.2	3 53	11.1	0 43 41.8	41.9	- 0.1	Comp., n. f. 15".
307	6 57	9.3	6 58	11.2	0 46 47.7	46.8	+ 0.9	
308	0 1	9.0	0 3	11.1	0 39 52.0	51.9	+ 0.1	
309	6 46	9.3	6 47	11.3	0 46 36.7	35.7	+ 1.0	
310	1 19	9.2	1 21	11.3	0 41 9.8	9.7	+ 0.1	
311	1 9	9.2	1 19	11.3	0 40 59.8	7.7	...	
312	4 40	9.4	4 47	11.3	0 44 30.6	35.7	...	
313	+ 2 11	9.3	+ 2 16	11.3	0 42 1.7	4.7	- 3.0	
314	- 0 14	9.2	- 0 10	11.3	0 39 36.8	38.7	- 1.9	
315	+10 22	- 9.7	+10 23	-11.6	+ 0 50 12.3	11.4	+ 0.9	

ZONE OBSERVATIONS.

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 134.					ZONE 135.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 134.		Zone 135.			
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	
316	11-12	20 19 12.0	15.9	11.95	-0.12		20 19 11.2	15.2	11.20	+0.57		20 19 11.83	11.77	+0.06			
317	11	19 27.9	31.7	27.80	0.12		19 27.0	31.0	27.00	0.57		19 27.68	27.57	+0.11			
318	12	19 35.3	39.5	35.40	0.12		19 34.8	38.7	34.75	0.57		19 35.28	35.32	-0.04			
319	12	19 45.6	49.7	45.65	0.12		19 44.9	48.8	44.85	0.57		19 45.53	45.42	+0.11			
320	11	19 56.5	60.5	56.50	0.12		19 55.6	59.5	55.55	0.57		19 56.38	56.12	+0.26			
321	10-11	20 10.8	14.8	10.80	0.12		20 9.9	13.9	9.90	0.57		20 10.68	10.47	+0.21			
322	..	.....	.....	.....	.....		20 22.6	26.6	22.60	0.57		20	23.17	....		
323	12	20 35.4	39.5	35.45	0.12		20 34.7	38.7	34.70	0.57		20 35.33	35.27	+0.06			
324	12	20 54.7	58.7	54.70	0.12		20 53.8	58.0	53.90	0.57		20 54.58	54.47	+0.11			
325	9-10	21 21.2	25.2	21.20	0.12		21 20.6	24.5	20.55	0.56		21 21.08	21.11	-0.03			
326	11-12	22 3.7	7.6	3.65	0.13		22 2.9	6.9	2.90	0.56		22 3.52	3.46	+0.06			
327	10-11	22 36.6	40.4	36.50	0.13		22 35.8	....	35.80	0.56		22 36.37	36.36	+0.01			
328	11-12	22 45.5	49.5	45.50	0.13		22 44.7	48.7	44.70	0.56		22 45.37	45.26	+0.11			
329	12	22 47.6	51.5	47.55	0.13		22 46.8	50.7	46.75	0.56		22 47.42	47.31	+0.11			
330	12	23 57.8	61.8	57.80	0.14		23 57.0	61.1	57.05	0.56		23 57.66	57.61	+0.05			
331	12	25 7.9	11.9	7.90	0.14		25 7.0	11.0	7.00	0.55		25 7.76	7.55	+0.21			
332	11	25 9.6	13.6	9.60	0.14		25 8.8	13.0	8.90	0.55		25 9.46	9.45	+0.01			
333	11-12	25 33.1	37.1	33.10	0.14		25 32.2	36.3	32.25	0.55		25 32.96	32.80	+0.16			
334	8-9	26 26.6	30.5	26.55	0.15		26 25.7	29.8	25.75	0.54		26 26.40	26.29	+0.11			
335	11	26 58.0	....	58.00	0.15		26 57.3	....	57.30	0.54		26 57.85	57.84	+0.01			
336	9-10	27 2.3	6.2	2.25	0.15		27 1.6	5.6	1.60	0.54		27 2.10	2.14	-0.04			
337	10-11	27 36.3	40.3	36.30	0.15		27 35.5	39.7	35.60	0.54		27 36.15	36.14	+0.01			
338	10-11	20 27 38.0	42.1	38.05	-0.15		20 27 37.4	41.3	37.35	+0.54		27 37.90	37.89	+0.01			

A.R. ^{h.}18 ^{m.}10 to ^{h.}20 ^{m.}27.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 134.	d.	Zone 135.	d.	Zone 134.	Zone 135.		
316	+10° 35'	- 9.7	+10° 37'	-11.6	+ 0° 50' 25.3	25.4	- 0.1	Bright stars numerous. Comp. s. f. 10"
317	0 52	9.4	0 54	11.5	0 40 42.6	42.5	+ 0.1	
318	5 23	9.6	5 25	11.6	0 45 13.4	13.4	0.0	
319	7 26	9.7	7 28	11.6	0 47 16.3	16.4	- 0.1	
320	7 39	9.7	7 43	11.6	0 47 29.3	31.4	- 2.1	
321	+ 2 45	9.5	+ 2 48	11.6	0 42 35.5	36.4	+ 0.9	
322	.....	....	- 0 11	11.5	0 39	37.5	....
323	- 0 13	9.4	- 0 14	11.6	0 39 37.6	34.4	+ 3.2	
324	+ 2 18	9.6	+ 2 19	11.6	0 42 8.4	7.4	+ 1.0	
325	5 5	9.7	5 7	11.7	0 44 55.3	55.3	0.0	
326	8 19	9.9	8 20	11.9	0 48 9.1	8.1	+ 1.0	This zone does not include more than one half of the 11th magnitude stars which passed the field, and not more than one quarter of the 12th magnitude. Some, also, of the 10th and 10th-11th magnitude were omitted. The collection of the brighter stars in groups was often remarked. The increased number was most noticeable among the 12th and 12th-13th magnitude stars; very few of which were taken.
327	3 18	9.8	3 21	11.8	0 43 8.2	9.2	- 1.0	
328	9 30	10.0	9 33	12.0	0 49 20.0	21.0	- 1.0	
329	4 52	9.8	4 53	11.9	0 44 42.2	41.1	+ 1.1	
330	9 0	10.1	9 3	12.1	0 48 49.9	50.9	- 1.0	
331	9 4	10.2	9 7	12.2	0 48 53.8	54.8	- 1.0	
332	3 46	10.0	3 48	12.1	0 43 36.0	35.9	+ 0.1	
333	3 36	10.0	3 38	12.1	0 43 26.0	25.9	+ 0.1	
334	7 38	10.3	7 39	12.3	0 47 27.7	26.7	+ 1.0	
335	7 28	10.3	7 31	12.4	0 47 17.7	18.6	- 0.9	
336	8 22	10.4	8 23	12.4	0 48 11.6	10.6	+ 1.0	
337	9 24	10.5	9 27	12.4	0 49 13.5	14.6	- 1.1	
338	+ 5 12	-10.3	+ 5 14	-12.4	+ 0 45 1.7	1.6	+ 0.1	

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33.Dec. [°]+0 [']50 to [°]1 [']0.

Number of the Star.	Magnitude.	ZONE 136.				ZONE 137.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 136.	Zone 137.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
1	12	19 32 27.7	31.4	27.55	+0.55	19 32 29.0	33.2	29.10	-0.73	19 32 28.10	28.37	-0.27
2	11-12	32	35.6	31.60	0.55	.....	.....	.....	.....	32 32.15	.....	.....
3	12	32 48.4	52.3	48.35	0.55	32 49.6	53.6	49.60	0.73	32 48.90	48.87	+0.03
4	12	32 54.0	58.1	54.05	0.55	32 55.2	59.2	55.20	0.73	32 54.60	54.47	+0.13
5	12-13	33 38.8	42.6	38.70	0.54	.....	.....	.....	.....	33 39.24	.....	.....
6	11-12	33 39.7	43.6	39.65	0.55	.....	.....	.....	.....	33 40.20	.....	.....
7	11-12	34 15.4	19.3	15.35	0.54	.....	.....	.....	.....	34 15.89	.....	.....
8	10-12	34 21.7	25.7	21.70	0.54	34	26.9	22.90	0.74	34 22.24	22.16	+0.08
9	11	34 29.7	33.5	29.60	0.54	34 30.8	.....	30.80	0.74	34 30.14	30.06	+0.08
10	9	34 48.2	52.2	48.20	0.54	34 49.5	53.7	49.60	0.74	34 48.74	48.86	-0.12
11	8-9	35 41.7	45.7	41.70	0.54	35 43.0	47.0	43.00	0.75	35 42.24	42.25	-0.01
12	10	35 42.2	46.2	42.20	0.54	35 43.5	47.4	43.45	0.75	35 42.74	42.70	+0.04
13	10	35 52.4	56.4	52.40	0.54	35 53.8	57.6	53.70	0.75	35 52.94	52.95	-0.01
14	11	35 57.7	61.7	57.70	0.54	.....	.....	.....	.....	35 58.24	.....	.....
15	10	36	5.9	1.90	0.54	36 3.3	7.3	3.30	0.75	36 2.44	2.55	-0.11
16	10-11	36 17.8	21.8	17.80	0.53	36 19.3	23.1	19.20	0.75	36 18.33	18.45	-0.12
17	8-9	36 42.2	46.3	42.25	0.53	.....	.....	.....	.....	36 42.78	.....	.....
18	12	36 56.6	60.7	56.65	0.53	.....	.....	.....	.....	36 57.18	.....	.....
19	12	37 31.2	.....	31.20	0.53	.....	.....	.....	.....	37 31.73	.....	.....
20	9	37 47.6	51.6	47.60	0.53	.....	.....	.....	.....	37 48.13	.....	.....
21	12	38 21.2	25.3	21.25	0.53	.....	.....	.....	.....	38 21.78	.....	.....
22	12	38 35.0	39.0	35.00	0.53	.....	.....	.....	.....	38 35.53	.....	.....
23	12-13	38 44.8	48.9	44.85	0.53	.....	.....	.....	.....	38 45.38	.....	.....
24	12	39 16.5	20.6	16.55	0.52	39 17.7	21.9	17.80	0.77	39 17.07	17.03	+0.04
25	10	40 1.6	5.5	1.55	0.52	.....	.....	.....	.....	40 2.07	.....	.....
26	12	40 3.5	7.5	3.50	0.52	40 4.7	....	4.70	0.77	40 4.02	3.93	+0.09
27	10	40 5.0	....	5.00	0.52	.....	.....	.....	.....	40 5.52	.....	.....
28	10	40	9.0	5.00	0.52	40	10.3	6.30	0.77	40 5.52	5.53	-0.01
29	10-11	40 49.6	53.6	49.60	0.52	40 50.8	54.8	50.80	0.77	40 50.12	50.03	+0.09
30	11-12	41 37.3	....	37.30	0.51	41 38.3	....	38.30	0.78	41 37.81	37.52	+0.29
31	11	41 39.1	43.0	39.05	0.51	41 40.3	44.1	40.20	0.78	41 39.56	39.42	+0.14
32	12	41 45.0	49.0	45.00	0.51	41 46.1	50.2	46.15	0.78	41 45.51	45.37	+0.14
33	11-12	41 50.5	54.4	50.45	0.51	41 51.7	55.5	51.60	0.78	41 50.96	50.82	+0.14
34	12-13	41 58.0	62.3	58.15	0.51	.....	.....	.....	.....	41 58.66	.....	.....
35	12	42 12.2	16.2	12.20	0.51	42 13.4	17.3	13.35	0.78	42 12.71	12.57	+0.14
36	12	42 37.6	41.7	37.65	0.51	42 38.8	....	38.80	0.78	42 38.16	38.02	+0.14
37	12	42 59.8	63.8	59.80	0.51	.....	.....	.....	.....	43 0.31	.....	.....
38	12	43 15.2	19.2	15.20	0.51	43 16.7	....	16.70	0.78	43 15.70	15.92	-0.22
39	9-10	43 39.3	43.3	39.30	0.50	43 40.6	44.8	40.70	0.78	43 39.80	39.92	-0.12
40	11-12	43	46.4	42.40	0.50	.....	.....	.....	.....	43 42.90	.....	.....
41	11	44 27.7	31.6	27.65	0.50	44 28.9	32.9	28.90	0.79	44 28.15	28.11	+0.04
42	11	44 35.3	39.6	35.45	0.50	44 36.7	40.6	36.65	0.79	44 35.95	35.86	+0.09
43	11	44 49.9	54.0	49.95	0.50	44 51.2	55.3	51.25	0.79	44 50.45	50.46	-0.01
44	12	44 55.1	59.0	55.05	0.50	.....	.....	.....	.....	44 55.55	.....	.....
45	12-13	19 45 30.0	34.0	30.00	+0.49	19 45 31.6	35.3	31.45	-0.79	19 45 30.49	30.60	-0.17

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 186.	d.	Zone 187a.	d.	Zone 186.	Zone 187a.		
1	+ 4 32	- 0.7	....	...	+ 0 54 31.3	....	....
2	10 3	1.0	....	...	1 0 2.0	....	....
3	4 48	0.7	+ 4 41	+ 3.8	0 54 47.3	44.8	+ 2.5	
4	5 18	0.8	5 12	3.8	0 55 17.2	15.8	+ 1.4	
5	7 21	1.0	....	...	0 57 20.0	....	....
6	5 32	0.8	....	...	0 55 31.2	....	....
7	10 36	1.1	....	...	1 0 34.9	....	....
8	0 58	0.7	0 53	3.7	0 50 57.3	56.7	+ 0.6	
9	9 56	1.1	9 50	3.6	0 59 54.9	53.6	+ 1.3	
10	1 30	0.8	1 26	3.6	0 51 29.2	29.6	- 0.4	
11	4 45	1.0	4 41	3.5	0 54 44.0	44.5	- 0.5	
12	5 4	1.0	5 9	3.5	0 55 3.0	12.5	- 9.5	
13	5 42	1.1	5 38	3.5	0 55 40.9	41.5	- 0.6	
14	6 46	1.1	6 40	3.5	0 56 44.9	43.5	+ 1.4	
15	7 12	1.2	7 10	3.5	0 57 10.8	13.5	- 2.7	
16	2 4	0.9	2 0	3.5	0 52 3.1	3.5	- 0.4	
17	0 51	0.9	0 46	3.4	0 50 50.1	49.4	+ 0.7	
18	10 15	1.4	....	...	1 0 13.6	....	....
19	10 32	1.5	10 31	3.3	1 0 30.5	34.3	- 3.8	
20	3 31	1.1	3 27	3.3	0 53 29.9	30.3	- 0.4	
21	9 8	1.5	9 5	3.3	0 59 6.5	8.3	- 1.8	
22	5 29	1.3	5 25	3.2	0 55 27.7	28.2	- 0.5	
23	6 41	1.4	....	...	0 56 39.6	....	....
24	9 28	1.6	9 23	3.2	0 59 26.4	26.2	+ 0.2	
25	2 30	1.3	2 26	3.1	0 52 28.7	29.1	- 0.4	
26	1 9	1.3	....	...	0 51 7.7	....	....
27	5 52	1.5	5 48	3.1	0 55 50.5	51.1	- 0.6	
28	8 46	1.6	....	...	0 58 44.4	....	....
29	3 56	1.5	3 50	3.0	0 53 54.5	53.0	+ 1.5	
30	8 53	1.8	8 50	2.9	0 58 51.2	52.9	- 1.7	
31	6 52	1.7	6 48	2.9	0 56 50.3	50.9	- 0.6	
32	7 36	1.7	7 30	2.9	0 57 34.3	32.9	+ 1.4	
33	8 28	1.8	8 22	2.9	0 58 26.2	24.9	+ 1.3	
34	9 24	1.8	....	...	0 59 32.2	....	....
35	3 34	1.6	3 30	2.9	0 53 32.4	32.9	- 0.5	
36	9 23	1.9	9 19	2.8	0 59 21.1	21.6	- 0.5	
37	10 15	2.0	....	...	1 0 13.0	....	....	Bright Moon.
38	9 11	2.0	9 9	2.8	0 59 9.0	11.8	- 2.8	
39	6 46	1.9	6 42	2.7	0 56 44.1	44.7	- 0.6	
40	10 1	2.0	....	...	0 59 59.0	....	....
41	7 3	2.0	6 59	2.7	0 57 1.0	1.7	- 0.7	
42	5 11	1.9	5 8	2.6	0 55 9.1	10.6	- 1.5	
43	5 0	1.9	4 56	2.6	0 54 58.1	58.6	- 0.5	
44	0 21	1.7	....	...	0 50 19.3	....	....
45	+ 0 16	- 1.7	+ 0 10	+ 2.5	+ 0 50 14.3	12.5	+ 1.8	

A.R. ^{h.}19 ^{m.}33 to ^{h.}20 ^{m.}33.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137 _a .					MEAN RIGHT ASCENSION. 1859.0		Difference.		
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 136.	Zone 137 _a .					
h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.
46	12	19 46 2.3	6.2	2.25	+0.49	19 46 3.8	7.6	3.70	-0.79	19 46 2.74	2.91	-0.17				
47	12	46 6.9	10.5	6.70	0.49	46 8.2	11.9	8.05	0.79	46 7.19	7.26	-0.07				
48	12	46 15.8	19.9	15.85	0.49	.....	.....	.....	.....	46 16.34	.....	.....		
49	10	46 38.6	42.7	38.65	0.49	46 40.0	43.8	39.90	0.80	46 39.14	39.10	+0.04				
50	10	46 41.9	45.8	41.85	0.49	.....	.....	.....	.....	46 42.34	.....	.....		
51	9-10	46	49.1	45.10	0.49	46	50.6	46.60	0.80	46 45.59	45.80	-0.21				
52	12	47 46.9	50.8	46.85	0.48	47 48.1	52.1	48.10	0.80	47 47.33	47.30	+0.03				
53	11-12	48 20.2	24.1	20.15	0.48	48	25.4	21.40	0.80	48 20.63	20.60	+0.03				
54	11-12	48 26.3	.....	26.30	0.48	48 27.6	31.5	27.55	0.80	48 26.78	26.75	+0.03			
55	10	48 27.9	32.0	27.95	0.48	.....	.....	.....	.....	48 28.43	.....	.....		
56	11	48 32.7	36.4	32.55	0.48	48 34.0	38.0	34.00	0.80	48 33.03	33.20	-0.17				
57	....	.....	.....	.....	.....	48 43.6	47.7	43.65	0.80	48 42.85	.....	.....		
58	11	48 56.5	60.4	56.45	0.48	.....	.....	.....	.....	48 56.93	.....	.....		
59	10-11	49 23.9	27.9	23.90	0.47	49 25.1	29.1	25.10	0.81	49 24.37	24.29	+0.08				
60	9-10	49 24.9	28.8	24.85	0.47	49 26.0	30.0	26.00	0.81	49 25.32	25.19	+0.13				
61	....	.....	.....	.....	.....	49 41.8	45.6	41.70	0.81	49 40.89	.....	.....		
62	12	49 57.2	61.3	57.25	0.47	.....	.....	.....	.....	49 57.72	.....	.....		
63	....	.....	.....	.....	.....	50 1.8	5.8	1.80	0.81	50 0.99	.....	.....		
64	11-12	50 32.7	36.4	32.55	0.47	50 33.7	37.6	33.65	0.81	50 33.02	32.84	+0.18				
65	12	50 38.3	42.0	38.15	0.47	50 39.3	43.2	39.25	0.81	50 38.62	38.44	+0.18				
66	....	.....	.....	.....	.....	50 42.1	.....	42.10	0.81	50 41.29	.....	.....		
67	....	50 40.8	44.8	40.80	0.47	.....	.....	.....	.....	50 41.27	.....	.....		
68	11	51 1.7	5.6	1.65	0.46	.....	.....	.....	.....	51 2.11	.....	.....		
69	11	51 2.3	6.2	2.25	0.46	.....	.....	.....	.....	51 2.71	.....	.....		
70	7	52 3.8	7.7	3.75	0.46	.....	.....	.....	.....	52 4.21	.....	.....		
71	11	52 4.1	8.1	4.10	0.46	.....	.....	.....	.....	52 4.56	.....	.....		
72	7	52 12.1	16.1	12.10	0.46	52 13.4	17.4	13.40	0.82	52 12.56	12.58	-0.02				
73	11	53 16.4	20.5	16.45	0.45	53 17.6	21.7	17.65	0.83	53 16.90	16.82	+0.08				
74	9	53 28.0	32.1	28.05	0.45	53 29.3	33.3	29.30	0.83	53 28.50	28.47	+0.03				
75	9-10	54 2.9	6.8	2.85	0.45	54 4.0	8.0	4.00	0.83	54 3.30	3.17	+0.13				
76	12	54 13.1	17.3	13.20	0.45	54 14.8	18.7	14.75	0.83	54 13.65	13.92	-0.27				
77	12	54 35.1	39.0	35.05	0.45	54	40.4	36.40	0.83	54 35.50	35.57	-0.07				
78	10	54 37.4	41.4	37.40	0.45	54 38.8	42.7	38.75	0.83	54 37.85	37.92	-0.07				
79	12	55 10.0	14.1	10.05	0.44	55 11.2	15.2	11.20	0.84	55 10.49	10.36	+0.13				
80	12	55 26.6	30.6	26.60	0.44	55 27.8	31.9	27.85	0.84	55 27.04	27.01	+0.03				
81	10	56 9.6	13.5	9.55	0.44	56 10.9	14.9	10.90	0.84	56 9.99	10.06	-0.07				
82	9-10	56 24.4	28.5	24.45	0.44	56 25.7	29.6	25.65	0.84	56 24.89	24.81	+0.08				
83	10	56 33.2	37.2	33.20	0.44	56 34.5	38.6	34.55	0.84	56 33.64	33.71	-0.07				
84	12	57 7.4	11.5	7.45	0.43	.....	.....	.....	.....	57 7.88	.....	.....		
85	....	.....	.....	.....	.....	57 10.6	14.6	10.60	0.85	57 9.75	.....	.....		
86	....	.....	.....	.....	.....	57	26.8	22.80	0.85	57 21.95	.....	.....		
87	11	57 46.7	50.4	46.55	0.43	57 48.0	52.0	48.00	0.85	57 46.98	47.15	-0.17				
88	11	58 15.9	19.8	15.85	0.43	58 16.9	20.9	16.90	0.85	58 16.28	16.05	+0.23				
89	11	58 36.7	40.7	36.70	0.43	58 38.0	42.1	38.05	0.85	58 37.13	37.20	-0.07				
90	11	19 58 53.9	57.9	53.90	+0.43	19 58 55.3	59.3	55.30	-0.85	19 58 54.33	54.45	-0.12				

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 136.	d.	Zone 137a.	d.	Zone 136.	Zone 137a.		
46	+ 5 16	- 2.0	+ 5 12	+ 2.5	+ 0 55 14.0	14.5	- 0.5	
47	6 0	2.0	5 56	2.5	0 55 58.0	58.5	- 0.5	
48	3 0	1.9	....	...	0 52 58.1	....	....
49	7 15	2.2	+ 7 40	2.4	0 57 12.8	42.4	-29.6	
50	+10 32	2.3	....	...	1 0 29.7	....	....
51	- 0 6	1.8	- 0 10	2.4	0 49 52.2	52.4	- 0.2	
52	+ 7 1	2.3	+ 6 57	2.3	0 56 58.7	59.3	- 0.6	
53	7 25	2.3	7 20	2.3	0 57 22.7	22.3	+ 0.4	
54	8 36	2.4	8 30	2.3	0 58 33.6	32.3	+ 1.3	
55	2 2	2.1	....	...	0 51 59.9	....	....
56	0 46	2.0	0 41	2.2	0 50 44.0	43.2	+ 0.8	
57	....	...	9 9	2.2	0 59	11.2	....
58	10 48	2.5	....	...	1 0 45.5	....	....
59	8 24	2.5	8 20	2.2	0 58 21.5	22.2	- 0.7	
60	10 32	2.6	10 29	2.2	1 0 29.4	31.2	- 1.8	
61	....	...	4 30	2.1	0 54	32.1	....
62	10 40	2.6	....	...	1 0 37.4	....	....
63	....	...	3 16	2.1	0 53	18.1	....
64	8 56	2.6	8 50	2.0	0 58 53.4	52.0	+ 1.4	
65	6 38	2.5	6 32	2.0	0 56 35.5	34.0	+ 1.5	
66	....	...	7 32	2.0	0 57	34.0	....
67	2 47	2.3	....	...	0 52 44.7	....	....
68	9 5	2.7	....	...	0 59 2.3	....	....
69	11 0	2.7	....	...	1 0 57.3	....	....
70	6 28	2.6	....	...	0 56 25.4	....	....
71	5 10	2.6	....	...	0 55 7.4	....	....
72	9 45	2.8	9 40	1.8	0 59 42.2	41.8	+ 0.4	
73	10 37	3.0	10 33	1.7	1 0 34.0	34.7	- 0.7	
74	8 41	2.9	8 36	1.7	0 58 38.1	37.7	+ 0.4	
75	7 10	2.9	7 3	1.7	0 57 7.1	4.7	+ 2.4	
76	0 58	2.6	0 51	1.6	0 50 55.4	52.6	+ 2.8	
77	0 36	2.6	+ 0 36	1.6	0 50 33.4	37.6	- 4.2	
78	0 4	2.6	- 0 1	1.6	0 50 1.4	0.6	+ 0.8	
79	9 0	3.1	+ 8 56	1.5	0 58 56.9	57.5	- 0.6	
80	8 1	3.1	7 55	1.5	0 57 57.9	56.5	+ 1.4	
81	0 8	2.7	0 3	1.4	0 50 5.3	4.4	+ 0.9	
82	7 44	3.1	7 40	1.4	0 57 40.9	41.4	- 0.5	
83	+ 2 3	2.9	2 0	1.4	0 52 0.1	1.4	- 1.3	
84	- 0 6	2.8	....	1.3	0 49 51.2	....	....
85	....	...	5 3	1.3	0 55	4.3	....
86	....	...	1 3	1.3	0 51	4.3	....
87	+ 0 54	2.9	0 50	1.3	0 50 51.1	51.3	- 0.2	
88	6 36	3.3	6 30	1.2	0 56 32.7	31.2	+ 1.5	
89	1 12	3.0	1 6	1.2	0 51 9.0	7.2	+ 1.8	
90	+ 0 41	- 3.0	+ 0 35	+ 1.1	+ 0 50 38.0	36.1	+ 1.9	

A.R. ^{h.}19 ^{m.}39 to ^{h.}20 ^{m.}33.Dec. +^o50 to ⁱ0.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137a.					MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 136.	Zone 137a.					
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.			
46	12	19 46 2.3	6.2	2.25	+0.49	19 46 3.8	7.6	3.70	-0.79	19 46 2.74	2.91	-0.17				
47	12	46 6.9	10.5	6.70	0.49	46 8.2	11.9	8.05	0.79	46 7.19	7.26	-0.07				
48	12	46 15.8	19.9	15.85	0.49	.....	.....	.....	.....	46 16.34	.....	.....		
49	10	46 38.6	42.7	38.65	0.49	46 40.0	43.8	39.90	0.80	46 39.14	39.10	+0.04				
50	10	46 41.9	45.8	41.85	0.49	.....	.....	.....	.....	46 42.34	.....	.....		
51	9-10	46	49.1	45.10	0.49	46	50.6	46.60	0.80	46 45.59	45.80	-0.21				
52	12	47 46.9	50.8	46.85	0.48	47 48.1	52.1	48.10	0.80	47 47.33	47.30	+0.03				
53	11-12	48 20.2	24.1	20.15	0.48	48	25.4	21.40	0.80	48 20.63	20.60	+0.03				
54	11-12	48 26.3	.....	26.30	0.48	48 27.6	31.5	27.55	0.80	48 26.78	26.75	+0.03			
55	10	48 27.9	32.0	27.95	0.48	.....	.....	.....	.....	48 28.43	.....	.....		
56	11	48 32.7	36.4	32.55	0.48	48 34.0	38.0	34.00	0.80	48 33.03	33.20	-0.17				
57	....	.....	.....	.....	.....	48 43.6	47.7	43.65	0.80	48 42.85	.....	.....		
58	11	48 56.5	60.4	56.45	0.48	.....	.....	.....	.....	48 56.93	.....	.....		
59	10-11	49 23.9	27.9	23.90	0.47	49 25.1	29.1	25.10	0.81	49 24.37	24.29	+0.08				
60	9-10	49 24.9	28.8	24.85	0.47	49 26.0	30.0	26.00	0.81	49 25.32	25.19	+0.13				
61	....	.....	.....	.....	.....	49 41.8	45.6	41.70	0.81	49 40.89	.....	.....		
62	12	49 57.2	61.3	57.25	0.47	.....	.....	.....	.....	49 57.72	.....	.....		
63	....	.....	.....	.....	.....	50 1.8	5.8	1.80	0.81	50 0.99	.....	.....		
64	11-12	50 32.7	36.4	32.55	0.47	50 33.7	37.6	33.65	0.81	50 33.02	32.84	+0.18				
65	12	50 38.3	42.0	38.15	0.47	50 39.3	43.2	39.25	0.81	50 38.62	38.44	+0.18				
66	....	.....	.....	.....	.....	50 42.1	.....	42.10	0.81	50 41.29	.....	.....		
67	....	50 40.8	44.8	40.80	0.47	.....	.....	.....	.....	50 41.27	.....	.....		
68	11	51 1.7	5.6	1.65	0.46	.....	.....	.....	.....	51 2.11	.....	.....		
69	11	51 2.3	6.2	2.25	0.46	.....	.....	.....	.....	51 2.71	.....	.....		
70	7	52 3.8	7.7	3.75	0.46	.....	.....	.....	.....	52 4.21	.....	.....		
71	11	52 4.1	8.1	4.10	0.46	.....	.....	.....	.....	52 4.56	.....	.....		
72	7	52 12.1	16.1	12.10	0.46	52 13.4	17.4	13.40	0.82	52 12.56	12.58	-0.02				
73	11	53 16.4	20.5	16.45	0.45	53 17.6	21.7	17.65	0.83	53 16.90	16.82	+0.08				
74	9	53 28.0	32.1	28.05	0.45	53 29.3	33.3	29.30	0.83	53 28.50	28.47	+0.03				
75	9-10	54 2.9	6.8	2.85	0.45	54 4.0	8.0	4.00	0.83	54 3.30	3.17	+0.13				
76	12	54 13.1	17.3	13.20	0.45	54 14.8	18.7	14.75	0.83	54 13.65	13.92	-0.27				
77	12	54 35.1	39.0	35.05	0.45	54 40.4	36.40	0.83		54 35.50	35.57	-0.07				
78	10	54 37.4	41.4	37.40	0.45	54 38.8	42.7	38.75	0.83	54 37.85	37.92	-0.07				
79	12	55 10.0	14.1	10.05	0.44	55 11.2	15.2	11.20	0.84	55 10.49	10.36	+0.13				
80	12	55 26.6	30.6	26.60	0.44	55 27.8	31.9	27.85	0.84	55 27.04	27.01	+0.03				
81	10	56 9.6	13.5	9.55	0.44	56 10.9	14.9	10.90	0.84	56 9.99	10.06	-0.07				
82	9-10	56 24.4	28.5	24.45	0.44	56 25.7	29.6	25.65	0.84	56 24.89	24.81	+0.08				
83	10	56 33.2	37.2	33.20	0.44	56 34.5	38.6	34.55	0.84	56 33.64	33.71	-0.07				
84	12	57 7.4	11.5	7.45	0.43	.....	.....	.....	.....	57 7.88	.....	.....		
85	....	.....	.....	.....	.....	57 10.6	14.6	10.60	0.85	57 9.75	.....	.....		
86	....	.....	.....	.....	.....	57 26.8	22.80	0.85		57 21.95	.....	.....		
87	11	57 46.7	50.4	46.55	0.43	57 48.0	52.0	48.00	0.85	57 46.98	47.15	-0.17				
88	11	58 15.9	19.8	15.85	0.43	58 16.9	20.9	16.90	0.85	58 16.28	16.05	+0.23				
89	11	58 36.7	40.7	36.70	0.43	58 38.0	42.1	38.05	0.85	58 37.13	37.20	-0.07				
90	11	19 58 53.9	57.9	53.90	+0.43	19 58 55.3	59.3	55.30	-0.85	19 58 54.33	54.45	-0.12				

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 186.	d.	Zone 187a.	d.	Zone 186.	Zone 187a.		
46	+ 5 16	- 2.0	+ 5 12	+ 2.5	+ 0 55 14.0	14.5	- 0.5	
47	6 0	2.0	5 56	2.5	0 55 58.0	58.5	- 0.5	
48	3 0	1.9	....	...	0 52 58.1	....	....
49	7 15	2.2	+ 7 40	2.4	0 57 12.8	42.4	-29.6	
50	+10 32	2.3	....	...	1 0 29.7	....	....
51	- 0 6	1.8	- 0 10	2.4	0 49 52.2	52.4	- 0.2	
52	+ 7 1	2.3	+ 6 57	2.3	0 56 58.7	59.3	- 0.6	
53	7 25	2.3	7 20	2.3	0 57 22.7	22.3	+ 0.4	
54	8 36	2.4	8 30	2.3	0 58 33.6	32.3	+ 1.3	
55	2 2	2.1	....	...	0 51 59.9	....	....
56	0 46	2.0	0 41	2.2	0 50 44.0	43.2	+ 0.8	
57	....	...	9 9	2.2	0 59	11.2	....
58	10 48	2.5	....	...	1 0 45.5	....	....
59	8 24	2.5	8 20	2.2	0 58 21.5	22.2	- 0.7	
60	10 32	2.6	10 29	2.2	1 0 29.4	31.2	- 1.8	
61	....	...	4 30	2.1	0 54	32.1	....
62	10 40	2.6	....	...	1 0 37.4	....	....
63	....	...	3 16	2.1	0 53	18.1	....
64	8 56	2.6	8 50	2.0	0 58 53.4	52.0	+ 1.4	
65	6 38	2.5	6 32	2.0	0 56 35.5	34.0	+ 1.5	
66	....	...	7 32	2.0	0 57	34.0	....
67	2 47	2.3	....	...	0 52 44.7	....	....
68	9 5	2.7	....	...	0 59 2.3	....	....
69	11 0	2.7	....	...	1 0 57.3	....	....
70	6 28	2.6	....	...	0 56 25.4	....	....
71	5 10	2.6	....	...	0 55 7.4	....	....
72	9 45	2.8	9 40	1.8	0 59 42.2	41.8	+ 0.4	
73	10 37	3.0	10 33	1.7	1 0 34.0	34.7	- 0.7	
74	8 41	2.9	8 36	1.7	0 58 38.1	37.7	+ 0.4	
75	7 10	2.9	7 3	1.7	0 57 7.1	4.7	+ 2.4	
76	0 58	2.6	0 51	1.6	0 50 55.4	52.6	+ 2.8	
77	0 36	2.6	+ 0 36	1.6	0 50 33.4	37.6	- 4.2	
78	0 4	2.6	- 0 1	1.6	0 50 1.4	0.6	+ 0.8	
79	9 0	3.1	+ 8 56	1.5	0 58 56.9	57.5	- 0.6	
80	8 1	3.1	7 55	1.5	0 57 57.9	56.5	+ 1.4	
81	0 8	2.7	0 3	1.4	0 50 5.3	4.4	+ 0.9	
82	7 44	3.1	7 40	1.4	0 57 40.9	41.4	- 0.5	
83	+ 2 3	2.9	2 0	1.4	0 52 0.1	1.4	- 1.3	
84	- 0 6	2.8	....	1.3	0 49 51.2	....	....
85	....	...	5 3	1.3	0 55	4.3	....
86	....	...	1 3	1.3	0 51	4.3	....
87	+ 0 54	2.9	0 50	1.3	0 50 51.1	51.3	- 0.2	
88	6 36	3.3	6 30	1.2	0 56 32.7	31.2	+ 1.5	
89	1 12	3.0	1 6	1.2	0 51 9.0	7.2	+ 1.8	
90	+ 0 41	- 3.0	+ 0 35	+ 1.1	+ 0 50 38.0	36.1	+ 1.9	

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33.Dec. +^o0 [']50 to ^o1 [']0.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137a.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 136.	Zone 137a.						
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.				
91	12	19 58 55.8	59.5	55.65	+0.43	.....	.....	.....	.....	19 58 56.08	.....	.....	.....	
92	10	59 33.4	37.5	33.45	0.42	19 59 34.8	38.7	34.75	-0.86	59 33.87	33.89	-0.02	.....			
93	10	59 34.9	39.0	34.95	0.42	59 36.2	40.2	36.20	0.86	59 35.37	35.34	+0.03	.....			
94	10-11	19 59 53.5	57.7	53.60	0.42	19 59 54.9	58.7	54.80	0.86	19 59 54.02	53.94	+0.08	.....			
95	10	20 0 9.8	13.8	9.80	0.42	20 0 11.0	15.0	11.00	0.86	20 0 10.22	10.14	+0.08	.....			
96	10	0 23.8	27.8	23.80	0.42	0 25.0	29.1	25.05	0.86	0 24.22	24.19	+0.03	.....			
97	11	0 47.0	51.1	47.05	0.42	0 48.5	.....	48.50	0.86	0 47.47	47.64	-0.17	.....			
98	12	0 50.3	54.3	50.30	0.42	0 51.3	55.4	51.35	0.86	0 50.72	50.49	+0.23	.....			
99	12	1 43.0	.....	43.00	0.41	1 44.3	48.3	44.30	0.87	1 43.41	43.43	-0.02	.....			
100	12	1 45.8	.....	45.80	0.41	1 47.1	50.9	47.00	0.87	1 46.21	46.13	+0.08	.....			
101	11	1 56.5	60.6	56.55	0.41	1 57.9	61.9	57.90	0.87	1 56.96	57.03	-0.07	.....			
102	11-12	2 3.4	7.6	3.50	0.41	2 4.8	8.8	4.80	0.87	2 3.91	3.93	-0.02	.....			
103	12-13	2 4.7	8.6	4.65	0.41	.....	.....	.....	.....	2 5.06	.....	.....	.....	
104	12	2 46.3	50.4	46.35	0.41	2 47.6	51.6	47.60	0.87	2 46.76	46.73	+0.03	.....			
105	12	2 51.7	55.7	51.70	0.41	.....	.....	.....	.....	2 52.11	.....	.....	.....	
106	11	3 30.9	34.8	30.85	0.41	3 32.0	36.0	32.00	0.87	3 31.26	31.13	+0.13	.....			
107	10	4 19.3	23.5	19.40	0.40	4 20.6	24.7	20.65	0.88	4 19.80	19.77	+0.03	.....			
108	12	4 34.8	38.8	34.80	0.40	1 .....	.....	.....	.....	4 35.20	.....	.....	.....	
109	11	5 10.9	14.9	10.90	0.40	.....	.....	.....	.....	5 11.30	.....	.....	.....	
110	10	5 12.7	16.6	12.65	0.40	5 13.9	17.8	13.85	0.88	5 13.05	12.97	+0.08	.....			
111	12	5 34.6	38.5	34.55	0.40	.....	.....	.....	.....	5 34.95	.....	.....	.....	
112	10	5 37.9	41.7	37.80	0.40	5 39.1	43.0	39.05	0.88	5 38.20	38.17	+0.03	.....			
113	10-11	.....	.....	.....	.....	5 51.1	57.1	5.00	0.88	.....	.....	.....	.....
114	9-10	6 10.1	14.1	10.10	0.40	6 11.4	15.6	11.50	0.88	6 10.50	10.62	-0.12	.....			
115	10	6 26.4	30.3	26.35	0.39	6 27.7	31.7	27.70	0.89	6 26.74	26.81	-0.07	.....			
116	11-12	7 5.0	.....	5.00	0.39	7 6.2	10.4	6.30	0.89	7 5.39	5.41	-0.02	.....			
117	11-12	7 6.4	10.3	6.35	0.39	7 7.6	11.5	7.55	0.89	7 6.74	6.66	+0.08	.....			
118	10	7 8.4	12.4	8.40	0.39	7 9.7	13.8	9.75	0.89	7 8.79	8.86	-0.07	.....			
119	11	7 8.8	12.8	8.80	0.39	.....	.....	.....	.....	7 9.19	.....	.....	.....	
120	11	7 28.9	32.9	28.90	0.39	7 30.3	34.2	30.25	0.89	7 29.29	29.36	-0.07	.....			
121	12	7 36.2	40.2	36.20	0.39	7 37.4	41.4	37.40	0.89	7 36.59	36.51	+0.08	.....			
122	12	8 4.4	8.4	4.40	0.39	8 5.8	5.0	5.80	0.89	8 4.79	4.91	-0.12	.....			
123	10-11	8 12.7	16.8	12.75	0.39	.....	.....	.....	.....	8 13.14	.....	.....	.....	
124	10-11	9 16.6	20.7	16.65	0.38	9 17.9	22.0	17.95	0.90	9 17.03	17.05	-0.02	.....			
125	11	9 32.8	36.8	32.80	0.38	9 34.0	38.1	34.05	0.90	9 33.18	33.15	+0.03	.....			
126	8-9	10 3.2	7.2	3.20	0.38	10 4.6	8.6	4.60	0.90	10 3.58	3.70	-0.12	.....			
127	12	10 6.6	10.4	6.50	0.38	10 7.7	11.7	7.70	0.90	10 6.88	6.80	+0.08	.....			
128	12	10 37.2	41.0	37.10	0.38	.....	.....	.....	.....	10 37.48	.....	.....	.....	
129	11	10 40.4	44.1	40.25	0.38	.....	.....	.....	.....	10 40.63	.....	.....	.....	
130	11	11 0.6	4.6	0.60	0.37	11 1.8	6.0	1.90	0.90	11 0.97	1.00	-0.03	.....			
131	12	11 11.8	15.8	11.80	0.37	11 13.0	17.0	13.00	0.90	11 12.17	12.10	+0.07	.....			
132	11	11 18.1	21.9	18.00	0.37	11	23.2	19.20	0.90	11 18.37	18.30	+0.07	.....			
133	11	11 35.9	39.9	35.90	0.37	11 37.1	41.1	37.10	0.91	11 36.27	36.19	+0.08	.....			
134	12	11 37.9	41.8	37.85	0.37	11 3.0	.....	.....	.....	11 38.22	.....	.....	.....	
135	11-12	20 11 43.9	47.8	43.85	+0.37	20 11 45.1	.....	45.10	-0.91	20 11 44.22	44.19	+0.03	.....			

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 136.	d.	Zone 137a.	d.	Zone 136.	Zone 137a.		
91	- 0 4	- 3.0			+ 0 49 53.0	....	....
92	+ 7 46	3.4	+ 7 40	+ 1.1	0 57 42.6	41.1	+ 1.5	
93	4 16	3.3	4 11	1.0	0 54 12.7	12.0	+ 0.7	
94	8 58	3.5	8 55	1.0	0 58 54.5	56.0	- 1.5	
95	7 17	3.5	7 13	1.0	0 57 13.5	14.0	- 0.5	
96	10 52	3.7	10 46	1.0	1 0 48.3	47.0	+ 1.3	
97	7 22	3.5	7 18	0.9	0 57 18.5	18.9	- 0.4	
98	5 51	3.5	5 47	0.9	0 55 47.5	47.9	- 0.4	
99	4 30	3.5	4 25	0.8	0 54 26.5	25.8	+ 0.7	
100	4 20	3.5	4 15	0.8	0 54 16.5	15.8	+ 0.7	
101	9 12	3.7	9 8	0.8	0 59 8.3	8.8	- 0.5	
102	4 11	3.5	4 7	0.8	0 54 7.5	7.8	- 0.3	
103	2 43	3.4	....	...	0 52 39.6	....	....
104	8 48	3.5	8 44	0.7	0 58 44.5	44.7	- 0.2	
105	10 22	3.9	....	...	1 0 18.1	....	....
106	10 11	3.9	10 7	0.6	1 0 7.1	7.6	- 0.5	
107	9 35	4.0	9 30	0.6	0 59 31.0	30.6	+ 0.4	
108	8 14	3.9	8 56	0.5	0 58 10.1	56.5	+13.6	
109	10 33	4.1	....	...	1 0 28.9	....	....
110	9 0	4.0	....	...	0 58 56.0	....	....
111	3 39	3.8	....	...	0 53 35.2	....	....
112	4 33	3.8	4 29	0.4	0 54 29.2	29.4	- 0.2	
113	....	...	9 0	0.4	0 59	0.4	....
114	2 31	3.8	2 26	0.4	0 52 27.2	26.4	+ 0.8	
115	4 48	3.9	4 41	0.4	0 54 44.1	41.4	+ 2.7	
116	2 44	3.9	2 40	0.3	0 52 40.1	40.3	- 0.2	
117	6 36	4.1	6 31	0.3	0 56 31.9	31.3	+ 0.6	
118	7 30	4.1	7 28	0.3	0 57 25.9	28.3	- 2.4	
119	9 30	4.2	....	0.3	0 59 25.8	....	....
120	5 20	4.0	5 16	0.3	0 55 16.0	16.3	- 0.3	
121	2 31	3.9	2 24	0.2	0 52 27.1	24.2	+ 2.9	
122	+ 0 50	3.8	0 43	0.2	0 50 46.2	43.2	+ 3.0	
123	- 0 16	3.8	....	...	0 49 40.2	....	....
124	+ 0 28	4.0	0 23	+ 0.1	0 50 24.0	23.1	+ 0.9	
125	6 29	4.3	6 23	0.0	0 56 24.7	23.0	+ 1.7	
126	6 37	4.3	6 33	0.0	0 56 32.7	33.0	- 0.3	
127	3 1	4.2	2 56	0.0	0 52 56.8	56.0	+ 0.8	
128	2 36	4.2	....	...	0 52 31.8	....	....
129	3 17	4.2	....	...	0 53 12.8	....	....
130	4 52	4.3	4 50	- 0.1	0 54 47.7	49.9	- 2.2	
131	9 2	4.6	8 58	0.1	0 58 57.4	57.9	- 0.5	
132	5 3	4.4	5 0	0.1	0 54 58.6	59.9	- 1.3	
133	6 34	4.5	6 30	0.2	0 56 29.5	29.8	- 0.3	
134	3 34	4.3	....	0.2	0 53 29.7	....	....
135	+ 5 50	- 4.5	+ 5 49	- 0.2	+ 0 55 45.5	48.8	- 3.3	

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 136.				ZONE 137a.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	<i>z</i> .	First Wire.	Second Wire.	Mean red. to 1st Wire.	<i>z</i> .	Zone 136.	Zone 137a.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
136	12	20 12 12.7	16.7	12.70	+0.37	20 12 14.0	18.0	14.00	-0.91	20 12 13.07	13.09	-0.02
137	12	12 27.1	31.1	27.10	0.37	12 28.3	....	28.30	0.91	12 27.47	27.39	+0.08
138	11-12	12 49.4	53.4	49.40	0.37	12 50.8	54.7	50.75	0.91	12 49.77	49.84	-0.07
139	11-12	13 11.0	15.1	11.05	0.36	13	16.5	12.50	0.91	13 11.41	11.59	-0.18
140	8-9	13 32.8	36.8	32.80	0.36	13 34.1	38.2	34.15	0.91	13 33.16	33.24	-0.08
141	10-11	14 3.9	7.8	3.85	0.36	14 5.0	9.2	5.10	0.92	14 4.21	4.18	+0.03
142	11-12	14 11.2	....	11.20	0.36	....	....	....	....	14 11.56	....	....
143	11	14 34.5	38.7	34.60	0.36	14 36.0	40.0	31.00	0.92	14 34.96	35.08	-0.12
144	12	14 40.3	44.5	40.40	0.36	....	....	....	....	14 40.76	....	....
145	11-12	16 25.1	29.1	25.10	0.35	16	30.2	26.20	0.93	16 25.45	25.27	+0.18
146	10	17 3.3	7.3	3.30	0.34	17 4.6	8.6	4.60	0.93	17 3.64	3.67	-0.03
147	7	17 31.1	35.2	31.15	0.34	17 32.5	36.4	32.45	0.93	17 31.49	31.52	-0.03
148	12	17 42.4	46.5	42.45	0.34	....	....	....	....	17 42.79	....	....
149	12	18 33.0	....	33.00	0.34	18 34.3	38.3	34.30	0.93	18 33.34	33.37	-0.03
150	12	18 34.6	....	34.60	0.34	....	....	....	....	18 34.94	....	....
151	11	18 36.5	....	36.50	0.34	18 37.8	41.8	37.80	0.93	18 36.84	36.87	-0.03
152	9	18 39.0	43.0	39.00	0.34	....	....	....	....	18 39.34	....	....
153	10	19 8.4	12.5	8.45	0.33	19 9.8	13.7	9.75	0.94	19 8.78	8.81	-0.03
154	12	19 11.5	15.5	11.50	0.33	....	....	....	....	19 11.83	....	....
155	11-12	19 39.0	43.1	39.05	0.33	19 40.3	44.3	40.30	0.94	19 39.38	39.36	+0.02
156	10	20 15.9	19.9	15.90	0.33	20 17.1	21.1	17.10	0.94	20 16.23	16.16	+0.07
157	12	20 33.8	37.7	33.75	0.33	....	....	....	....	20 34.08	....	....
158	10-11	20 41.7	45.7	41.70	0.33	20 43.0	47.1	43.05	0.94	20 42.03	42.11	-0.08
159	10-11	20 59.7	63.8	59.75	0.33	....	....	....	....	21 0.08	....	....
160	12	21 8.4	12.3	8.35	0.32	21 9.7	13.6	9.65	0.95	21 8.67	8.70	-0.03
161	11-12	21 42.9	46.9	42.90	0.32	21 44.2	48.1	44.15	0.95	21 43.22	43.20	+0.02
162	12	22 30.7	35.1	30.85	0.32	22 32.2	36.5	32.35	0.95	22 31.17	31.40	-0.23
163	11	22 41.0	44.8	40.90	0.32	22 42.3	46.3	42.30	0.95	22 41.22	41.35	-0.13
164	11-12	23 13.3	17.5	13.40	0.31	23 14.9	18.9	14.90	0.96	23 13.71	13.94	-0.23
165	12	23 20.1	24.1	20.10	0.31	23 21.3	25.3	21.30	0.96	23 20.41	20.34	+0.07
166	10-11	23 42.6	46.5	42.55	0.31	23 43.7	47.7	43.70	0.96	23 42.86	42.74	+0.12
167	11-12	23 56.3	60.3	56.30	0.31	23 57.6	61.7	57.65	0.96	23 56.61	56.69	-0.08
168	9-10	24 36.4	40.5	36.45	0.31	24	41.9	37.90	0.96	24 36.76	36.94	-0.18
169	9-10	24 48.1	52.2	48.15	0.31	24 49.5	53.6	49.55	0.96	24 48.46	48.59	-0.13
170	9-10	24 53.1	57.2	53.15	0.31	24 54.5	58.4	54.45	0.96	24 53.46	53.49	-0.03
171	....	....	....	....	....	25 5.1	9.1	5.10	0.97	25	4.13	....
172	12	25 6.3	10.3	6.30	0.30	....	....	....	....	25 6.60	....	....
173	11-12	25 30.4	34.4	30.40	0.30	....	....	....	....	25 30.70	....	....
174	12	25 44.4	48.4	44.40	0.30	....	....	....	....	25 44.70	....	....
175	10	25 50.3	54.3	50.30	0.30	25 51.7	55.7	51.70	0.97	25 50.60	50.73	-0.13
176	11-12	27 10.4	14.4	10.40	0.29	27 11.9	15.8	11.85	0.98	27 10.69	10.87	-0.18
177	12	27 18.7	22.7	18.70	0.29	27 20.1	24.0	20.05	0.98	27 18.99	19.07	-0.08
178	11	27 37.9	41.9	37.90	0.29	27 39.3	43.2	39.25	0.98	27 38.19	38.27	-0.08
179	9-10	27 58.6	....	58.60	0.29	28	4.0	0.00	0.98	27 58.89	59.02	-0.13
180	9-10	20 27	62.7	58.70	+0.29	20 28 0.0	....	0.00	-0.98	20 27 58.99	59.02	-0.03

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 136.	d.	Zone 137a.	d.	Zone 136.	Zone 137a.		
136	+ 6 0	- 4.5	+ 5 56	- 0.2	+ 0 55 55.5	55.8	- 0.3	Blue tinge.
137	6 0	4.5	6 0	0.2	0 55 55.5	59.8	- 4.3	
138	8 8	4.7	8 3	0.3	0 58 3.3	2.7	+ 0.6	
139	1 5	4.4	1 0	0.3	0 50 60.6	59.7	+ 0.9	
140	6 52	4.7	6 50	0.4	0 56 47.3	49.6	- 2.3	
141	8 21	4.8	8 15	0.4	0 58 16.2	14.6	+ 1.6	
142	2 34	4.5	2 20	0.4	0 52 29.5	19.6	+ 9.9	
143	+ 2 32	4.6	2 32	0.5	0 52 27.4	31.5	- 4.1	
144	- 0 8	4.5	....	...	0 49 47.5	....	....
145	+ 5 18	4.9	5 12	0.6	0 55 13.1	11.4	+ 1.7	
146	10 26	5.2	10 20	0.7	1 0 20.8	19.3	+ 1.5	
147	5 3	5.0	4 59	0.8	0 54 58.0	58.2	- 0.2	
148	10 41	5.3	....	...	1 0 35.7	....	....
149	6 50	5.2	6 47	0.9	0 56 44.8	46.1	- 1.3	
150	6 14	5.2	....	...	0 56 8.8	....	....
151	4 48	5.1	....	...	0 54 42.9	....	....
152	0 12	4.9	....	...	0 50 7.1	....	....
153	4 43	5.1	4 38	0.9	0 54 37.9	37.1	+ 0.8	
154	0 26	4.9	....	...	0 50 21.1	....	....
155	6 24	5.3	6 20	1.0	0 56 18.7	19.0	- 0.3	
156	3 45	5.2	3 41	1.0	0 53 39.8	40.0	- 0.2	
157	6 53	5.4	....	...	0 56 47.6	....	....
158	8 6	5.5	8 2	1.1	0 58 0.5	0.9	- 0.4	
159	5 16	5.4	5 11	1.1	0 55 10.6	9.9	+ 0.7	
160	1 22	5.2	1 20	1.1	0 51 16.8	18.9	- 2.1	
161	4 8	5.4	4 4	1.2	0 54 2.6	2.8	- 0.2	
162	0 15	5.2	0 11	1.3	0 50 9.8	9.7	+ 0.1	
163	2 40	5.4	2 35	1.3	0 52 34.6	33.7	+ 0.9	
164	7 43	5.7	7 41	1.3	0 57 37.3	39.7	- 2.4	
165	6 46	5.7	....	...	0 56 40.3	....	....
166	6 48	5.7	6 47	1.4	0 56 42.3	45.6	- 3.3	
167	8 59	5.8	8 55	1.4	0 58 53.2	53.6	- 0.4	
168	7 22	5.8	7 18	1.5	0 57 16.2	16.5	- 0.3	
169	3 28	5.7	3 25	1.5	0 53 22.3	23.5	- 1.2	
170	5 22	5.8	5 18	1.5	0 55 16.2	16.5	- 0.3	
171	....	...	2 4	1.5	0 52	2.5	....
172	10 6	6.0	....	...	1 0 0.1	....	....
173	7 42	5.9	....	...	0 57 36.1	....	....
174	5 14	5.8	....	...	0 55 8.2	....	....
175	9 35	6.1	9 30	1.6	0 59 28.9	28.4	+ 0.5	
176	6 45	6.1	6 50	1.7	0 56 38.9	48.3	- 9.4	
177	6 21	6.0	6 20	1.7	0 56 15.0	18.3	- 3.3	
178	3 33	5.9	3 10	1.8	0 53 27.1	8.2	+ 18.9	
179	1 17	5.9	1 9	1.8	0 51 11.1	7.2	+ 3.9	
180	+ 8 28	- 6.2	+ 8 25	- 1.8	+ 0 58 21.8	23.2	- 1.4	

ZONE OBSERVATIONS.

A.R. ^{h.}19 ^{m.}32 to ^{h.}20 ^{m.}33.Dec. [°]+0 [']50 to [°]1 [']0.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137a.					MEAN RIGHT ASCENSION. 1859.0		Difference.	
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 136.	Zone 137a.				
181	11-12	h. m. s.	20 28 28.5	32.4	28.45	+0.29	h. m. s.	20 28 29.7	33.7	29.70	-0.98	h. m. s.	20 28 28.74	28.72	+0.02
182	12		28 35.1	39.1	35.10	0.29		29	40.5	36.50	0.99		28 35.39	35.51	-0.12
183	9-10		29 44.4	48.5	44.45	0.28		29 59.2	49.7	45.70	0.99		29 44.73	44.71	+0.02
184	11		29 57.8	....	57.80	0.28		.....	....	....	....		29 58.08	....	....
185	10-11		29	62.0	58.00	0.28		.....	....	....	....		29 58.28	....	....
186	10		30 42.9	46.8	42.85	0.28		30 44.1	48.0	44.05	0.99		30 43.13	43.06	+0.07
187	12		30 43.3	47.3	43.30	0.28		30 44.8	48.8	44.80	0.99		30 43.58	43.81	-0.23
188	11-12		31 10.4	14.3	10.35	0.27		31 11.6	15.5	11.55	0.99		31 10.62	10.56	+0.06
189	10-11		31 18.6	22.4	18.50	0.27		31 19.9	23.8	19.85	1.00		31 18.77	18.85	-0.08
190	9-10		31 30.0	33.9	29.95	0.27		31 31.3	35.3	31.30	1.00		31 30.22	30.30	-0.08
191	11-12		32 2.5	6.5	2.50	0.27		32 3.8	7.8	3.80	1.00		32 2.77	2.80	-0.03
192	11		32 13.2	17.4	13.30	0.27		32 14.7	18.5	14.60	1.00		32 13.57	13.60	-0.03
193	12		32 18.7	22.8	18.75	+0.27		.....	....	....	....		32 19.02	....	....
194	..	20	.....	....	.....	....	20	33 16.7	20.7	16.70	-1.00	20	33	15.70	....

A.R. ^{h.}19 ^{m.}39 to ^{h.}20 ^{m.}33.Dec. +⁰ 50 to ¹ 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 186.	d.	Zone 187a.	d.	Zone 186.	Zone 187a.		
181	+ 8 36	- 6.3	+ 8 30	- 1.8	+ 0 58 29.7	28.2	+ 1.5	Moon very troublesome in this zone. Scale dusty. Observations bad. Could not easily see 12th magnitude stars before their coming upon the mica, and very often not at all when behind it. Comp., n. p. 15".
182	4 37	6.2	4 31	1.9	0 54 30.8	29.1	+ 1.7	
183	0 44	6.0	0 39	2.0	0 50 58.0	37.0	+ 1.0	
184	1 36	6.1	1 33	2.0	0 51 29.9	31.0	- 1.1	
185	6 58	6.3	....	....	0 56 51.7	....	....
186	3 52	6.2	3 50	2.1	0 53 45.8	47.9	- 2.1	
187	2 35	6.1	2 32	2.1	0 52 28.9	29.9	- 1.0	
188	6 32	6.4	6 29	2.1	0 56 25.6	26.9	- 1.3	
189	4 3	6.3	4 0	2.1	0 53 56.7	57.9	- 1.2	
190	1 23	6.2	1 18	2.2	0 51 16.8	15.8	+ 1.0	
191	9 15	6.7	9 11	2.2	0 59 8.3	8.8	- 0.5	
192	3 46	6.4	3 42	2.2	0 53 39.6	39.8	- 0.2	
193	+ 1 23	- 6.3	....	....	0 51 16.7	....	....
194	.....	....	+ 2 3	- 2.4	+ 0 52	0.6	....

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 136.						ZONE 137 _a .						MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 136.		Zone 137 _a .		
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	
1	9-10	18	15	10.6	14.6	10.60	+0.90	.....	.....	.....	.....	.....	18	15	11.50	.....	.....
2	12-13	16	24.3	28.3	24.30	0.90	.....	.....	.....	.....	.....	.....	16	25.20	.....	.....	.....
3	12-13	17	9.3	13.2	9.25	0.89	.....	.....	.....	.....	.....	.....	17	10.14	.....	.....	.....
4	13	17	11.7	15.4	11.55	0.89	.....	.....	.....	.....	.....	.....	17	12.44	.....	.....	.....
5	12	18	22.0	26.0	22.00	0.89	18	18	22.4	26.4	22.40	+0.55	18	22.89	22.95	-0.06	.....
6	11-12	18	30.8	34.8	30.80	0.89	18	31.0	35.0	31.00	0.55	.....	18	31.69	31.55	+0.14	.....
7	11-12	18	56.1	60.0	56.05	0.89	18	56.3	60.2	56.25	0.55	.....	18	56.94	56.80	+0.14	.....
8	10	19	6.2	10.2	6.20	0.88	19	6.5	10.4	6.45	0.55	.....	19	7.08	7.00	+0.08	.....
9	12	19	34.0	37.9	33.95	0.88	.....	.....	.....	.....	.....	.....	19	34.83	.....	.....	.....
10	10-11	19	57.0	61.1	57.05	0.88	19	57.4	61.3	57.35	0.54	.....	19	57.93	57.89	+0.04	.....
11	11	19	57.9	61.9	57.90	0.88	19	58.2	62.2	58.20	0.54	.....	19	58.78	58.74	+0.04	.....
12	9-10	20	16.5	20.6	16.55	0.88	20	16.8	20.9	16.85	0.54	.....	20	17.43	17.39	+0.04	.....
13	11	21	31.7	35.9	31.80	0.87	21	....	36.0	32.00	0.53	.....	21	32.67	32.53	+0.14	.....
14	12	21	57.2	61.4	57.30	0.87	21	57.6	61.5	57.55	0.53	.....	21	58.17	58.08	+0.09	.....
15	12	22	45.2	49.2	45.20	0.87	.....	.....	.....	.....	.....	.....	22	46.07	.....	.....	.....
16	12-13	22	56.8	60.8	56.80	0.87	22	57.0	61.2	57.10	0.52	.....	22	57.67	57.62	+0.05	.....
17	12-13	23	21.5	25.6	21.55	0.87	23	....	....	....	....	.....	23	22.42	.....	.....	.....
18	12	23	38.5	42.5	38.50	0.87	23	38.5	42.7	38.60	0.52	.....	23	39.37	39.12	+0.25	.....
19	11-12	24	42.1	46.2	42.15	0.86	24	42.4	46.4	42.40	0.51	.....	24	43.01	42.91	+0.10	.....
20	11	25	47.4	51.3	47.35	0.86	25	47.5	51.5	47.50	0.50	.....	25	48.21	48.00	+0.21	.....
21	10-11	26	18.0	22.0	18.00	0.85	26	18.3	22.1	18.20	0.50	.....	26	18.85	18.70	+0.15	.....
22	10	26	35.8	39.9	35.85	0.85	26	36.2	40.0	36.10	0.49	.....	26	36.70	30.59	+0.11	.....
23	9-10	26	59.1	63.2	59.15	0.85	26	59.6	63.7	59.65	0.49	.....	26	60.00	60.14	-0.14	.....
24	12	27	1.2	5.1	1.15	0.85	.....	.....	.....	.....	.....	.....	27	2.00	.....	.....	.....
25	11-12	28	22.3	26.3	22.30	0.85	28	22.8	26.7	22.75	0.48	.....	28	23.15	23.23	-0.08	.....
26	11-13	29	15.7	19.5	15.60	0.84	29	16.2	20.3	16.25	0.47	.....	29	16.44	16.72	-0.28	.....
27	....	.....	.....	.....	.....	.....	29	38.9	42.8	38.85	0.47	.....	29	....	39.32	.....	.....
28	7	29	58.0	62.1	58.05	0.84	29	58.6	62.6	58.60	0.47	.....	29	58.89	59.07	-0.18	.....
29	9	30	54.5	58.4	54.45	0.84	30	54.8	58.8	54.80	0.46	.....	30	55.29	55.26	+0.03	.....
30	8-9	31	26.3	30.3	26.30	0.83	31	26.8	30.9	26.85	0.46	.....	31	27.13	27.31	-0.18	.....
31	11-12	32	27.0	31.0	27.00	0.83	32	27.7	31.5	27.60	0.45	.....	32	27.83	28.05	-0.22	.....
32	11	32	42.9	47.2	43.05	0.83	32	....	47.6	43.60	0.45	.....	32	43.88	44.05	-0.17	.....
33	12-13	32	....	51.7	47.70	0.83	.....	.....	.....	.....	.....	.....	32	48.53	.....	.....	.....
34	11	32	58.1	62.1	58.10	0.83	32	58.5	62.5	58.50	0.45	.....	32	58.93	58.95	-0.02	.....
35	8	33	34.2	38.3	34.25	0.82	33	34.7	38.7	34.70	0.45	.....	33	35.07	35.15	-0.08	.....
36	12	33	48.6	52.3	48.45	0.82	.....	.....	.....	.....	.....	.....	33	49.27	.....	.....	.....
37	12	33	53.1	57.1	53.10	0.82	.....	.....	.....	.....	.....	.....	33	53.92	.....	.....	.....
38	10	34	29.9	33.9	29.90	0.82	34	30.4	34.5	30.45	0.44	.....	34	30.72	30.89	-0.17	.....
39	12	34	40.9	44.9	40.90	0.82	34	41.3	45.3	41.30	0.44	.....	34	41.72	41.74	-0.02	.....
40	10-11	34	51.3	55.3	51.30	0.82	34	51.6	55.7	51.65	0.44	.....	34	52.12	52.09	+0.03	.....
41	9-10	35	41.4	45.3	41.35	0.81	35	41.8	46.0	41.90	0.43	.....	35	42.16	42.33	-0.17	.....
42	11	36	9.3	13.4	9.35	0.81	36	9.7	13.7	9.70	0.43	.....	36	10.16	10.13	+0.03	.....
43	10-11	37	1.9	6.0	1.95	0.80	37	2.3	6.3	2.30	0.42	.....	37	2.75	2.72	+0.03	.....
44	12	37	9.1	13.1	9.10	0.80	37	9.6	13.4	9.50	0.42	.....	37	9.90	9.92	-0.02	.....
45	11-12	18	38	3.7	7.8	3.75	+0.80	18	38	4.2	8.2	4.20	+0.41	18	38	4.55	4.61	-0.06

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. +^o50 to ^o10.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 136.	d.	Zone 137a.	d.	Zone 136.	Zone 137a.		
1	+ 9 17	+ 6.4	+ 9 10	+11.5	+ 0 59 23.4	21.5	+ 1.9	
2	4 52	6.5	4 47	11.4	0 44 58.5	58.4	+ 0.1	
3	0 48	6.7	....	....	0 40 54.7	....	...
4	1 50	6.6	....	....	0 41 56.6	....	...
5	6 12	6.4	6 7	11.3	0 46 18.4	18.3	+ 0.1	
6	8 1	6.1	7 55	11.2	0 48 7.1	6.2	+ 0.9	
7	6 10	6.2	6 7	11.2	0 46 16.2	16.2	- 2.0	
8	7 58	6.1	7 52	11.2	0 48 4.1	3.2	+ 0.9	
9	2 15	6.3	....	....	0 42 21.3	....	...
10	2 54	6.3	2 49	11.1	0 43 0.3	0.1	+ 0.2	
11	3 55	6.2	3 50	11.1	0 44 1.2	1.1	+ 0.1	
12	9 13	5.9	9 7	11.1	0 49 18.9	18.1	+ 0.8	
13	9 8	5.8	9 4	10.9	0 49 13.8	14.9	- 1.1	
14	10 5	5.7	10 0	10.9	1 0 10.7	10.9	- 0.2	
15	4 53	5.9	4 48	10.8	0 54 58.9	58.8	+ 0.1	
16	5 29	5.9	5 24	10.8	0 55 34.9	34.8	+ 0.1	
17	9 5	5.6	8 59	10.8	0 59 10.6	9.8	+ 0.8	
18	9 10	5.6	9 2	10.7	0 59 15.6	12.7	+ 2.9	
19	3 36	5.8	3 30	10.6	0 53 41.8	40.6	+ 1.2	
20	9 29	5.4	9 24	10.5	0 59 34.4	34.5	- 0.1	
21	10 38	5.3	10 30	10.5	1 0 43.3	40.5	+ 2.8	
22	10 9	5.3	10 2	10.4	1 0 14.3	12.4	+ 1.9	
23	0 35	5.8	0 20	10.4	0 50 40.8	30.4	+10.4	
24	2 51	5.6	....	....	0 52 56.6	....	...	Very few stars visible.
25	2 45	5.5	2 40	10.3	0 52 50.5	50.3	+ 0.2	
26	4 12	5.3	4 9	10.2	0 54 17.3	19.2	- 1.9	
27	....	...	+ 4 4	10.1	0 54	14.1	...	
28	0 1	5.5	- 0 3	10.1	0 50 6.5	7.1	- 0.6	
29	8 23	5.0	+ 8 18	10.0	0 58 28.0	28.0	0.0	
30	6 3	5.1	5 59	10.0	0 56 8.1	9.0	- 0.9	
31	0 12	5.2	0 7	9.9	0 50 17.2	16.9	+ 0.3	
32	8 36	4.8	8 30	9.9	0 58 40.8	39.9	+ 0.9	
33	8 39	4.8	....	9.8	0 58 43.8	....	...
34	7 38	4.8	7 36	9.8	0 57 42.8	45.8	- 3.0	
35	4 33	4.9	4 30	9.8	0 54 37.9	39.8	- 1.9	
36	5 37	4.8	....	9.8	0 55 41.8	....	...
37	2 52	5.0	....	9.7	0 52 57.0	....	...
38	1 12	5.0	1 9	9.7	0 51 17.0	18.7	- 1.7	Bright moonlight.
39	4 29	4.8	....	9.7	0 54 33.8	....	...
40	7 30	4.7	7 35	9.7	0 57 42.7	44.7	- 2.0	
41	1 50	4.8	+ 1 46	9.6	0 51 54.8	55.6	- 0.8	
42	0 2	4.9	- 0 1	9.5	0 50 6.9	8.5	- 1.6	
43	2 40	4.7	+ 2 37	9.5	0 52 44.7	46.5	- 1.8	
44	7 36	4.4	7 31	9.5	0 57 40.4	40.5	- 0.1	
45	+ 3 35	+ 4.5	+ 2 10	+ 9.4	+ 0 53 39.5	19.4	+20.1	

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137a.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 136.	Zone 137a.			
46	11-12	h. m. s. 18 38 21.3	s. 25.5	s. 21.40	+0.80	h. m. s. 18 38 21.7	s. 25.8	s. 21.75	+0.41	h. m. s. 18 38 22.20	s. 22.16	+0.04		
47	11-12	40 14.8	18.9	14.85	0.79	40 15.3	19.2	15.25	0.40	40 15.64	15.65	-0.01		
48	....	40 49.8	53.8	49.80	0.79	....	....	....	....	40 50.59	....	....
49	9-10	40 56.9	60.9	56.90	0.79	40 57.1	61.1	57.10	0.39	40 57.69	57.49	+0.20		
50	9-10	41 48.4	52.6	48.50	0.78	41 49.0	52.9	48.95	0.39	41 49.28	49.34	-0.06		
51	12	42 2.5	6.4	2.45	0.78	42 2.8	6.9	2.85	0.39	42 3.23	3.24	-0.01		
52	12	42 58.7	62.7	58.70	0.78	42 59.1	63.2	59.15	0.38	42 59.48	59.53	-0.05		
53	12-13	43 30.1	34.1	30.10	0.78	43 30.5	34.5	30.50	0.38	43 30.88	30.88	0.00		
54	12	43 49.5	....	49.50	0.77	....	....	....	....	43 50.27	....	....
55	11	44 4.0	7.8	3.90	0.77	44 4.7	8.7	4.70	0.37	44 4.67	5.07	-0.40		
56	12	44 6.1	10.1	6.10	0.77	44	10.7	6.70	0.37	44 6.87	7.07	-0.20		
57	12	44	13.5	9.50	0.77	44 10.2	14.2	10.20	0.37	44 10.27	10.57	-0.30		
58	11-12	44 23.4	27.7	23.55	0.77	....	....	....	....	44 24.32	....	....
59	12-13	44 33.6	37.6	33.00	0.77	....	....	....	....	44 34.37	....	....
60	12	45 59.4	63.5	59.45	0.77	46 0.0	4.1	0.05	0.35	40 0.22	0.40	-0.18		
61	11-12	47 7.0	11.7	7.70	0.76	47 8.2	12.2	8.20	0.34	47 8.46	8.54	-0.08		
62	11	47 26.2	30.2	26.20	0.76	47 26.6	30.8	26.70	0.34	47 26.96	27.04	-0.08		
63	7	47 43.8	47.9	43.85	0.76	47 44.1	48.2	44.15	0.34	47 44.61	44.49	+0.12		
64	12	48 13.2	17.4	13.30	0.76	....	....	....	....	48 14.06	....	....
65	11	48 21.3	25.1	21.20	0.76	....	....	....	....	48 21.96	....	....
66	11-12	48	29.2	25.20	0.76	48 25.5	29.5	25.50	0.33	48 25.96	25.83	+0.13		
67	12	48 56.4	60.7	56.55	0.75	48 56.9	61.0	56.95	0.33	48 57.30	57.28	+0.02		
68	10-11	49 52.8	56.6	52.70	0.75	49 53.3	57.1	53.20	0.32	49 53.45	53.52	-0.07		
69	11	49 56.0	60.0	56.00	0.75	....	....	....	....	49 56.75	....	....
70	12	50 30.1	34.0	30.05	0.75	....	....	....	....	50 30.80	....	....
71	8-9	50 42.1	46.0	42.05	0.75	50 42.5	46.5	42.50	0.32	50 42.80	42.82	-0.02		
72	11	50 57.8	61.9	57.85	0.75	50 58.4	62.2	58.30	0.31	50 58.60	58.61	-0.01		
73	10	51 7.7	....	7.70	0.74	51 8.4	....	8.40	0.31	51 8.44	8.71	-0.27
74	7	51 15.2	19.2	15.20	0.74	51 15.6	19.6	15.60	0.31	51 15.94	15.91	+0.03		
75	10	52 18.9	22.9	18.90	0.74	52 19.3	23.3	19.30	0.30	52 19.64	19.60	+0.04		
76	11-12	52 47.6	51.6	47.60	0.74	52 48.0	52.2	48.10	0.30	52 48.34	48.40	-0.06		
77	11	52 50.4	54.2	50.30	0.74	52 50.8	54.9	50.85	0.30	52 51.04	51.15	-0.11		
78	10-11	53 2.9	6.9	2.90	0.73	53 3.4	7.4	3.40	0.30	53 3.63	3.70	-0.07		
79	9	53 24.9	28.9	24.90	0.73	53 25.4	29.5	25.45	0.30	53 25.63	25.75	-0.12		
80	12	53 39.7	....	39.70	0.73	....	....	....	....	53 40.43	....	....
81	12	53 43.8	47.6	43.70	0.73	....	....	....	....	53 44.43	....	....
82	12	53 52.6	56.6	52.60	0.73	....	....	....	....	53 53.33	....	....
83	11	55 0.4	....	0.40	0.72	55 0.9	4.9	0.90	0.28	55 1.12	1.18	-0.06	
84	12	55 4.0	....	4.00	0.72	55 4.3	8.3	4.30	0.28	55 4.72	4.58	+0.14	
85	12	55 12.5	....	12.50	0.72	55 13.0	17.0	13.00	0.28	55 13.22	13.28	-0.06	
86	11	55 21.9	....	21.90	0.72	....	....	....	....	55 22.62	....	....
87	11	55 25.8	29.9	25.85	0.72	55 26.3	30.4	26.35	0.28	55 26.57	26.63	-0.06		
88	12	55 53.2	57.3	53.25	0.72	....	....	....	....	55 53.97	....	....
89	12	56 24.5	28.6	24.55	0.72	18 56 24.9	28.9	24.90	+0.28	56 25.27	25.18	+0.09		
90	11-12	18 56 45.7	....	45.70	+0.72	....	....	....	....	18 56 46.42	....	....

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 186.	d.	Zone 187a.	d.	Zone 186.	Zone 187a.		
46	+ 7 20	+ 4.3	+ 7 15	+ 9.3	+ 0 57 24.3	24.3	0.0	Very few small stars passed since the beginning of the zone.
47	2 17	4.4	2 12	9.2	0 52 21.4	21.2	+ 0.2	
48	....	...	....	...	....	....	....
49	9 16	4.0	9 9	9.1	0 59 20.0	18.1	+ 1.9	
50	1 9	4.3	1 4	9.0	0 51 13.3	13.0	+ 0.3	
51	4 26	4.1	4 19	9.0	0 54 30.1	28.0	+ 2.1	
52	3 28	4.1	3 21	8.9	0 53 32.1	29.9	+ 2.2	
53	5 3	3.9	4 59	8.9	0 55 6.9	7.9	- 1.0	
54	1 4	4.1	....	...	0 51 8.1	....	....
55	3 57	3.9	3 50	8.8	0 53 60.9	58.8	+ 2.1	
56	3 8	4.0	3 0	8.8	0 53 12.0	8.8	+ 3.2	
57	3 16	4.0	3 10	8.8	0 53 20.0	18.8	+ 1.2	
58	9 20	3.6	....	...	0 59 23.6	....	....
59	10 29	3.6	....	...	1 0 32.6	....	....
60	3 39	3.8	3 34	8.7	0 53 42.8	42.7	+ 0.1	
61	1 55	3.8	1 50	8.6	0 51 58.8	58.6	+ 0.2	
62	2 6	3.7	2 0	8.5	0 52 9.7	8.5	+ 1.2	
63	6 51	3.5	6 45	8.5	0 56 54.5	53.5	+ 1.0	
64	6 10	3.4	....	...	0 56 13.4	....	....
65	10 3	3.2	....	...	1 0 6.2	....	....
66	6 4	3.2	6 0	8.4	0 56 7.2	8.4	- 1.2	
67	7 26	3.3	7 21	8.4	0 57 29.3	29.4	- 0.1	
68	7 13	3.2	7 9	8.3	0 57 16.2	17.3	- 1.1	
69	3 48	3.4	....	...	0 53 51.4	....	....
70	8 30	3.1	....	...	0 58 33.1	....	....
71	5 57	3.2	5 50	8.2	0 55 60.2	58.2	+ 2.0	
72	3 18	3.3	3 11	8.2	0 53 21.3	19.2	+ 2.1	
73	0 54	3.5	0 47	8.2	0 50 57.5	55.2	+ 2.3	
74	10 40	2.9	10 31	8.2	1 0 42.9	39.2	+ 3.7	
75	10 22	2.8	10 17	8.1	1 0 24.8	25.1	- 0.3	
76	7 0	3.0	6 52	8.0	0 57 3.0	0.0	+ 3.0	Suspected double.
77	6 12	3.0	6 7	8.0	0 56 15.0	15.0	0.0	
78	9 9	2.8	9 3	8.0	0 59 11.8	11.0	+ 0.8	
79	0 30	3.2	0 25	8.0	0 50 33.2	33.0	+ 0.2	
80	7 34	2.9	0 57 36.9	Group of stars.
81	1 53	3.1	....	...	0 51 56.1	....	....
82	3 52	3.1	....	...	0 53 55.1	....	....
83	2 13	3.0	2 9	7.8	0 52 16.0	16.8	- 0.8	
84	3 32	2.9	3 29	7.8	0 53 34.9	36.8	- 1.9	
85	9 34	2.6	9 29	7.8	0 59 36.6	36.8	- 0.2	
86	6 9	2.8	....	...	0 56 11.8	....	....
87	4 8	2.9	4 0	7.8	0 54 10.9	7.8	+ 3.1	
88	0 51	3.0	....	...	0 50 54.0	....	....
89	8 3	2.6	+ 7 58	+ 7.8	0 58 5.6	5.8	- 0.2	
90	+10 24	+ 2.4	+ 1 0 26.4	

ZONE OBSERVATIONS.

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. ⁰+0 ⁵⁰50 to ¹1 ⁰0.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137 ^a .					MEAN RIGHT ASCENSION. 1859.0		Difference.				
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 136.	Zone 137 ^a .							
h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.		
91	11	18	56	51.3	....	51.30	+0.72	.....	.....	.....	.....	18	56	52.02	.....	.....
92	12		57	0.3	4.5	0.40	0.71	.....	.....	.....	.....	57	1.11	.....	.....	.....
93	10		57	3.6	7.8	3.70	0.71	18	57	4.1	8.0	4.05	+0.27	57	4.41	4.32	+0.09	
94	12		57	29.4	33.7	29.55	0.71	57	34.0	30.00	0.27		57	30.26	30.27	-0.01	
95	11		57	32.2	36.1	32.15	0.71	57	36.6	32.60	0.27		57	32.86	32.87	-0.01	
96	11		57	51.8	55.7	51.75	0.71	.....	.....	.....	.....	57	52.46	.....	.....	.....
97	10-12		57	59.2	63.3	59.25	0.71	.....	.....	.....	.....	57	59.96	.....	.....	.....
98	....		.....	.....	.....	.....	.....	58	15.7	19.7	15.70	0.26	58	.....	15.96	.....	
99	10		58	17.3	21.3	17.30	0.71	58	17.9	21.8	17.85	0.26	58	18.01	18.11	-0.10		
100	11		58	47.5	51.5	.....	0.71	58	48.0	51.9	47.95	0.26	58	48.21	48.21	0.00	
101	12		58	....	55.8	51.80	0.71	58	52.4	56.2	52.30	0.26	58	52.51	52.56	-0.05	
102	12		59	28.7	32.9	28.80	0.70	59	29.2	33.2	29.20	0.25	59	29.50	29.45	+0.05		
103	11	18	59	31.7	35.7	31.70	0.70	18	59	32.0	36.1	32.05	0.25	18	59	32.40	32.30	+0.10
104	10-11	19	0	7.4	11.3	7.35	0.70	19	0	7.7	11.7	7.70	0.25	19	0	8.05	7.95	+0.10
105	8-9		0	34.3	38.2	34.25	0.70	0	34.8	36.6	34.70	0.25	0	34.95	34.95	0.00		
106	9-10		0	36.2	40.2	36.20	0.70	0	36.4	40.5	36.45	0.25	0	36.90	36.70	+0.20		
107	9		0	....	42.8	38.80	0.70	0	39.2	43.1	39.15	0.25	0	39.50	39.40	+0.10	
108	....		.....	.....	.....	.....	.....	0	56.7	60.6	56.65	0.24	0	.....	56.89	.....	
109	11-12		1	13.0	17.0	13.00	0.69	.....	.....	.....	.....	1	13.69	.....	.....	.....
110	11-12		1	19.4	23.3	19.35	0.69	1	19.9	23.9	19.90	0.24	1	20.04	20.14	-0.10		
111	11		1	32.3	36.3	32.30	0.69	.....	.....	.....	.....	1	32.99	.....	.....	.....
112	11		1	34.6	38.6	34.60	0.69	1	34.9	38.9	34.90	0.24	1	35.29	35.14	+0.15		
113	9-10		2	12.3	16.2	12.25	0.69	2	12.8	16.8	12.80	0.23	2	12.94	13.03	-0.09		
114	9		2	31.9	35.9	31.90	0.69	2	32.3	36.4	32.35	0.23	2	32.59	32.58	+0.01		
115	12		2	59.3	63.3	59.30	0.69	2	59.9	63.9	59.90	0.23	2	59.99	60.13	-0.14		
116	12		3	34.6	38.8	34.70	0.68	.....	.....	.....	.....	3	35.38	.....	.....	.....
117	12		4	38.5	....	38.50	0.68	.....	.....	.....	.....	4	39.18	.....	.....	.....
118	11		4	49.7	....	49.70	0.68	4	50.2	54.1	50.15	0.22	4	50.38	50.37	+0.01	
119	11-12		5	2.6	6.5	2.55	0.67	5	2.9	7.0	2.95	0.21	5	3.22	3.16	+0.06		
120	10-11		5	5.1	9.1	5.10	0.67	.....	.....	.....	.....	5	5.77	.....	.....	.....
121	12		6	14.7	18.8	14.75	0.67	6	15.1	19.1	15.10	0.21	6	15.42	15.31	+0.11		
122	12		6	20.3	24.3	20.30	0.67	6	20.8	24.8	20.80	0.21	6	20.97	21.01	-0.04		
123	12		6	34.4	38.4	34.40	0.67	6	35.0	39.0	35.00	0.21	6	35.07	35.21	-0.14		
124	12		6	37.6	41.7	37.65	0.67	.....	.....	.....	.....	6	38.32	.....	.....	.....
125	....		.....	.....	.....	.....	.....	6	42.9	47.0	42.95	0.20	6	.....	43.15	.....	
126	12		6	50.6	54.7	50.65	0.67	.....	.....	.....	.....	6	51.32	.....	.....	.....
127	12		7	36.4	40.4	36.40	0.66	7	37.1	41.0	37.05	0.20	7	37.06	37.25	-0.19		
128	12		7	48.3	52.5	48.40	0.66	.....	.....	.....	.....	7	49.06	.....	.....	.....
129	12		8	3.2	7.2	3.20	0.66	8	3.7	7.7	3.70	0.19	8	3.86	3.89	-0.03		
130	12-13		8	10.2	14.4	10.30	0.66	8	10.8	14.8	10.80	0.19	8	10.96	10.99	-0.03		
131	12		8	25.4	29.3	25.35	0.66	.....	.....	.....	.....	8	26.01	.....	.....	.....
132	12		8	34.6	38.4	34.50	0.66	8	34.8	38.9	34.85	0.19	8	35.16	35.04	+0.12		
133	12		8	46.1	50.3	46.20	0.66	.....	.....	.....	.....	8	46.86	.....	.....	.....
134	12	19	8	51.3	47.30	+0.66	19	8	48.0	51.9	47.95	+0.19	19	8	47.96	48.14	-0.18
135	11-12		

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. [°]+0 50 to [°]1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 136.	d.	Zone 137a.	d.	Zone 136.	Zone 137a.		
91	+ 6 8	+ 2.5	+ 0 59 10.5	Bright moonlight.
92	9 14	2.4	....	..	0 59 16.4	....	..
93	8 28	2.5	+ 8 22	+ 7.7	0 58 30.5	29.7	+ 0.8	
94	4 47	2.6	3 40	7.6	0 54 49.6	47.6	+ 2.0	
95	7 42	2.5	....	..	0 57 44.5	....	..
96	8 23	2.4	....	..	0 58 25.4	....	..
97	7 30	2.4	....	..	0 57 32.4	....	..
98	....	...	3 16	7.6	0 53	23.6	....
99	10 33	2.2	10 29	7.6	1 0 35.2	36.6	- 1.4	
100	1 13	2.7	1 8	7.5	0 51 15.7	15.5	+ 0.2	
101	0 14	2.7	0 8	7.5	0 50 16.7	15.5	+ 1.2	Many bright stars passing unobserved.
102	4 35	2.4	4 30	7.4	0 54 37.4	37.4	0.0	
103	2 42	2.5	2 37	7.4	0 52 44.5	44.4	+ 0.1	
104	10 50	2.0	10 42	7.4	1 0 52.0	49.4	+ 2.6	
105	10 29	2.1	10 22	7.4	1 0 31.1	29.4	+ 1.7	
106	7 18	2.2	7 10	7.3	0 57 20.2	17.3	+ 2.9	
107	10 37	2.1	10 33	7.3	1 0 39.1	40.3	- 1.2	
108	....	...	8 59	7.3	0 59	6.3	....
109	2 44	2.4	....	..	0 52 46.4	....	..
110	2 48	2.3	2 42	7.3	0 52 50.3	49.3	+ 1.0	
111	10 0	2.0	....	..	1 0 2.0	....	..
112	7 48	2.1	7 40	7.3	0 57 50.1	47.3	+ 2.8	
113	10 30	1.9	10 25	7.2	1 0 31.9	32.2	- 0.3	
114	10 56	1.8	10 50	7.2	1 0 57.8	57.2	+ 0.6	
115	1 31	2.3	1 24	7.1	0 51 33.3	31.1	+ 2.2	
116	0 13	2.3	....	..	0 50 15.3	....	..
117	6 24	1.9	....	..	0 56 25.9	....	..
118	6 19	1.9	6 13	7.0	0 56 20.9	20.0	+ 0.9	
119	7 39	1.8	7 31	6.9	0 57 40.8	37.9	+ 2.9	
120	10 49	1.6	....	..	1 0 50.6	....	..
121	6 5	1.7	6 0	6.8	0 56 6.7	6.8	- 0.1	Double?
122	1 11	2.0	1 10	6.8	0 51 13.0	16.8	- 3.8	
123	1 9	2.0	1 6	6.8	0 51 11.0	12.8	- 1.8	
124	10 40	1.5	....	..	1 0 41.5	....	..
125	....	...	1 46	6.8	0 51	52.8	....
126	4 17	1.8	....	..	0 54 18.8	....	..
127	0 42	1.9	0 36	6.7	0 50 43.9	42.7	+ 1.2	
128	4 33	1.7	....	..	0 54 34.7	....	..
129	1 38	1.8	1 35	6.7	0 51 39.8	41.7	- 1.9	
130	3 51	1.7	3 48	6.7	0 53 52.7	54.7	- 2.0	
131	10 47	1.3	....	..	1 0 48.3	....	..
132	5 29	1.6	5 23	6.6	0 55 30.6	29.6	+ 1.0	
133	8 59	1.6	....	..	0 59 0.6	....	..
134	5 33	1.5	....	..	0 55 34.5	....	..
135	+ 3 14	+ 1.6	+ 3 9	+ 6.6	+ 0 53 15.6	15.6	0.0	

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. +^o 50 ['] 0 ["] 0.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137a.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	Δ.	First Wire.		Second Wire.	Mean red. to 1st Wire.	Δ.	Zone 136.		Zone 137a.	
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	
136	12	19 9 27.4	31.5	27.45	+0.65		19 9 27.9	32.0	27.95	+0.18		19 9 28.10	28.13	-0.03	
137	12	9 58.3	62.3	58.30	0.65		9 58.8	62.8	58.80	0.18		9 58.95	58.98	-0.03	
138	9	10 13.8	17.8	13.80	0.65		10 14.0	18.1	14.05	0.18		10 14.45	14.23	+0.22	
139	10	10 27.9	31.8	27.85	0.65		10 28.1	32.1	28.10	0.18		10 28.50	28.28	+0.22	
140	6	11 21.5	25.6	21.55	0.64		11 22.1	26.0	22.05	0.17		11 22.19	22.22	-0.03	
141	12	11 32.5	36.5	32.50	0.64		11	36.9	32.90	0.17		11 33.14	33.07	+0.07	
142	9	13 15.4	19.4	15.40	0.64		13 15.9	19.9	15.90	0.15		13 16.04	16.05	-0.01	
143	11	13 24.2	28.1	24.15	0.64		13 24.4	28.4	24.40	0.15		13 24.79	24.55	+0.24	
144	11-12	13 26.7	30.7	26.70	0.64		13	31.3	27.30	0.15		13 27.34	27.45	-0.11	
145	11-12	14 11.4	....	11.40	0.63		14 11.7	15.9	11.80	0.15		14 12.03	11.95	+0.08	
146	12	14 15.6	19.4	15.50	0.63		14	20.0	16.00	0.15		14 16.13	16.15	-0.02	
147	12	14 30.3	34.3	30.30	0.63		14 30.8	34.8	30.80	0.14		14 30.93	30.94	-0.01	
148	11	14 43.1	47.0	43.05	0.63		14 43.6	47.6	43.60	0.14		14 43.68	43.74	-0.06	
149	12	15 14.7	18.7	14.70	0.63		.....	.....	.....	.....		15 15.33	.....	.....
150	11	15 26.1	30.2	26.15	0.63		15 26.6	30.6	26.60	0.14		15 26.78	26.74	+0.04	
151	9-10	16 16.8	20.8	16.80	0.62		16 16.9	21.1	17.00	0.13		16 17.42	17.13	+0.29	
152	11	16 24.8	28.8	24.80	0.62		16 25.2	29.1	25.15	0.13		16 25.42	25.28	+0.14	
153	10	16 38.4	42.4	38.40	0.62		16 38.9	43.0	38.95	0.13		16 39.02	39.08	-0.06	
154	12-13	17 46.4	50.3	46.35	0.62		.....	.....	.....	.....		17 46.97	.....	.....
155	12-13	18 0.1	4.0	0.05	0.62		.....	.....	.....	.....		18 0.67	.....	.....
156	11	18 41.3	....	41.30	0.62		.....	.....	.....	.....		18 41.92	.....	.....
157	12	18 43.0	....	43.00	0.62		.....	.....	.....	.....		18 43.62	.....	.....
158	12	18 55.0	58.9	54.95	0.61		.....	.....	.....	.....		18 55.56	.....	.....
159	12-13	18 58.1	62.0	58.05	0.61		.....	.....	.....	.....		18 58.66	.....	.....
160	10	20 8.2	12.1	8.15	0.61		.....	.....	.....	.....		20 8.76	.....	.....
161	9-10	20 9.6	13.5	9.55	0.61		20 9.8	14.0	9.90	0.10		20 10.16	10.00	+0.16	
162	10-11	20 31.7	35.7	31.70	0.61		.....	.....	.....	.....		20 32.31	.....	.....
163	10	20 35.2	39.1	35.15	0.61		20 35.7	39.5	35.60	0.10		20 35.76	35.70	+0.06	
164	12	21 5.1	9.3	5.20	0.61		.....	.....	.....	.....		21 5.81	.....	.....
165	9-10	21 8.7	12.7	8.70	0.61		21 9.3	13.3	9.30	0.09		21 9.31	9.39	-0.08	
166	10	21 47.8	52.0	47.90	0.60		21 48.2	52.2	48.20	0.09		21 48.50	48.29	+0.21	
167	10	22 14.3	18.3	14.30	0.60		22 14.7	18.7	14.70	0.08		22 14.90	14.78	+0.12	
168	9-10	22 29.8	33.9	29.85	0.60		22 30.3	34.1	30.20	0.08		22 30.45	30.28	+0.17	
169	11	22 31.2	35.2	31.20	0.60		22 31.7	35.8	31.75	0.08		22 31.80	31.83	-0.03	
170	9-10	22 53.4	57.4	53.40	0.60		22 53.8	57.8	53.80	0.08		22 54.00	53.88	+0.12	
171	12	23 15.1	19.2	15.15	0.60		.....	.....	.....	.....		23 15.75	.....	.....
172	....	.....	.....	.....	.....		23 19.2	23.2	19.20	0.08		23 19.28	.....	.....
173	11-12	23 21.5	25.5	21.50	0.60		23 21.9	25.9	21.90	0.08		23 22.10	21.98	+0.12	
174	12	23 23.1	26.9	23.00	0.60		23	27.2	23.20	0.08		23 23.60	23.28	+0.32	
175	12	23	29.9	25.90	0.60		.....	.....	.....	.....		23 26.50	.....	.....
176	12	23 45.8	49.6	45.70	0.59		.....	.....	.....	.....		23 46.29	.....	.....
177	12	23 52.7	56.7	52.70	0.59		23 53.0	57.0	53.00	0.07		23 53.29	53.07	+0.22	
178	12	24 15.6	19.4	15.50	0.59		.....	.....	.....	.....		24 16.09	.....	.....
179	12	24	25.2	21.20	0.59		24 21.8	25.8	21.80	0.07		24 21.79	21.87	-0.08	
180	12	19 24 28.2	32.1	28.15	+0.59		19 24 28.7	32.7	28.70	+0.07		19 24 28.74	28.87	-0.13	

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. +^o50 to ⁱ0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 136.	d.	Zone 137a.	d.	Zone 136.	Zone 137a.		
136	+ 1 28	+ 1.7	+ 1 20	+ 6.5	+ 0 51 29.7	26.5	+ 3.2	
137	7 19	1.3	7 14	6.5	0 57 20.3	20.5	- 0.2	
138	10 0	1.2	9 55	6.5	1 0 1.2	1.5	- 0.3	
139	+ 6 48	1.3	+ 6 41	6.5	0 56 49.3	47.5	+ 1.8	
140	- 0 8	1.6	- 0 11	6.4	0 49 53.6	53.4	- 1.8	
141	+ 6 59	1.2	+ 6 50	6.4	0 57 0.2	56.4	+ 3.8	
142	8 1	1.1	7 54	6.2	0 58 2.1	0.2	+ 1.9	
143	9 16	0.9	9 10	6.2	0 59 16.9	16.2	+ 0.7	
144	4 34	1.1	4 29	6.2	0 54 35.1	35.2	- 0.1	
145	3 11	1.1	3 9	6.1	0 53 12.1	15.1	- 3.0	
146	2 12	1.2	2 9	6.1	0 52 13.2	15.1	- 1.9	
147	2 30	1.1	2 20	6.1	0 52 31.1	26.1	+ 5.0	
148	3 42	1.1	3 38	6.1	0 53 43.1	44.1	- 1.0	
149	1 30	1.1	....	...	0 51 31.1	....	....
150	7 6	0.8	7 0	6.0	0 57 6.8	6.0	+ 0.8	
151	9 32	0.6	9 26	5.9	0 59 32.6	31.9	+ 0.7	
152	5 51	0.8	5 48	5.9	0 55 51.8	53.9	- 2.1	
153	3 23	0.9	3 20	5.9	0 53 23.9	25.9	- 2.0	
154	6 56	0.6	....	...	0 56 56.6	....	....
155	5 4	0.6	....	...	0 55 4.6	....	....
156	10 22	0.3	....	...	1 0 22.3	....	....
157	8 0	0.4	....	...	0 58 0.4	....	....
158	5 57	0.5	....	...	0 55 57.5	....	....
159	+ 9 19	0.3	....	...	0 59 19.3	....	....
160	- 0 13	0.7	....	...	0 49 47.7	....	....
161	+ 6 25	0.4	6 20	5.6	0 56 25.4	25.6	- 0.2	
162	4 22	0.4	....	...	0 54 22.4	....	....
163	0 22	0.6	0 15	5.6	0 50 22.6	20.6	+ 2.0	Illumination bad.
164	6 8	0.3	....	...	0 56 8.3	....	....
165	1 3	0.5	....	...	0 51 3.5	....	....
166	9 19	0.1	9 15	5.4	0 59 19.1	20.4	- 1.3	
167	8 11	0.1	8 5	5.4	0 58 11.1	10.4	+ 0.7	
168	9 58	0.0	9 52	5.4	0 59 58.0	57.4	+ 0.6	
169	9 40	0.0	9 33	5.4	0 59 40.0	38.4	+ 1.6	
170	7 0	0.1	6 54	5.3	0 56 60.1	59.3	+ 0.8	
171	5 57	0.1	....	...	0 55 57.1	....	....
172	....	...	5 50	5.3	....	59.3	....
173	3 18	0.2	3 10	5.3	0 53 18.2	15.3	+ 2.9	
174	5 50	+ 0.1	5 48	5.3	0 55 50.1	53.3	- 3.2	
175	10 29	- 0.1	....	...	1 0 28.9	....	....
176	10 56	0.2	....	...	1 0 55.8	....	....
177	8 29	0.1	8 21	5.2	0 58 28.9	26.2	+ 2.7	
178	7 1	- 0.2	....	...	1 1 0.8	....	....
179	2 42	+ 0.2	....	...	0 52 42.2	....	....
180	+ 1 24	+ 0.2	+ 1 18	+ 5.2	+ 0 51 24.2	23.2	+ 1.0	

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. +^o50 to ⁱ0.

Number of the Star.	Magnitude.	ZONE 136.					ZONE 137a.					MEAN RIGHT ASCENSION. 1859.0		Difference.					
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 136.	Zone 137a.								
h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.	s.	s.					
181	12	19	24	49.5	53.5	49.50	+0.59	19	24	49.9	54.0	49.95	+0.07	19	24	50.09	50.02	+0.07	
182	9-10		25	9.0	13.1	9.05	0.58		25	9.4	13.5	9.45	0.06		25	9.63	9.51	+0.12	
183	10		25	17.3	21.2	17.25	0.58		25	17.8	21.7	17.75	0.06		25	17.83	17.81	+0.02	
184	12		26	2.2	....	2.20	0.58		26	....	6.9	2.90	0.06		26	2.78	2.96	-0.18
185	12		26	13.3	17.5	13.40	0.58		.....	.....	.....	.....	.....		26	13.98	.....	.....
186	12		26	27.5	32.0	27.75	0.58	19	26	28.4	32.4	28.40	+0.05		26	28.33	28.45	-0.12	
187	12		26	34.8	....	34.80	0.58		.....	.....	.....	.....	.....		26	33.38	.....	.....
188	12		26	52.9	56.7	52.80	0.58		.....	.....	.....	.....	.....		26	53.38	.....	.....
189	12		27	2.6	6.5	2.55	0.57		.....	.....	.....	.....	.....		27	3.12	.....	.....
190	11-12		27	4.3	8.5	4.40	0.57		.....	.....	.....	.....	.....		27	4.97	.....	.....
191	12		27	39.0	43.0	39.00	0.57		.....	.....	.....	.....	.....		27	39.57	.....	.....
192	9-10		27	39.9	43.9	39.90	0.57		.....	.....	.....	.....	.....		27	40.47	.....	.....
193	12		27	51.7	55.8	51.75	0.57		.....	.....	.....	.....	.....		27	52.32	.....	.....
194	12		27	59.7	63.8	59.75	0.57		.....	.....	.....	.....	.....		28	0.32	.....	.....
195	12		28	7.4	11.5	7.45	0.57		.....	.....	.....	.....	.....		28	8.02	.....	.....
196	11		28	17.5	21.8	17.65	0.57		..	....	.....	.....	.....		28	18.22	.....	.....
197	11-12		28	42.6	46.8	42.70	0.57		.....	.....	.....	.....	.....		28	43.27	.....	.....
198	11		29	19.8	23.6	19.70	0.56		.....	.....	.....	.....	.....		29	20.26	.....	.....
199	12		29	52.5	56.8	52.65	0.56		.....	.....	.....	.....	.....		29	53.21	.....	.....
200	11-12		30	19.2	23.2	19.20	0.56		.....	.....	.....	.....	.....		30	19.76	.....	.....
201	10		30	35.3	....	35.30	0.56		.....	.....	.....	.....	.....		30	35.86	.....	.....
202	10-11		30	39.3	43.2	39.25	0.56		.....	.....	.....	.....	.....		30	39.81	.....	.....
203	11-12		30	55.2	59.2	55.20	0.56		.....	.....	.....	.....	.....		30	55.76	.....	.....
204	11	19	31	6.5	10.4	6.45	+0.55			19	31	7.00

A.R. ^{h.}18 ^{m.}15 to ^{h.}19 ^{m.}31.Dec. +⁰ 50 to ¹ 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 136.	d.	Zone 137a.	d.	Zone 136.	Zone 137a.		
181	+ 5 10	0.0	+ 5 4	+ 5.2	+ 0 55 10.0	12.2	- 2.2	
182	8 10	- 0.2	8 7	5.1	0 58 9.8	12.1	- 2.3	
183	8 4	- 0.2	7 59	5.1	0 58 3.8	4.1	- 0.3	
184	0 2	+ 0.2	0 0	5.1	0 50 2.2	5.1	- 2.9	
185	10 49	- 0.4	....	....	1 0 48.6	....	...
186	3 50	0.0	+ 3 49	+ 5.0	0 53 50.0	54.0	- 4.0	
187	6 20	- 0.2	....	....	0 56 19.8	....	...	New lamp inserted ; instrument disturbed.
188	0 29	+ 0.1	....	....	0 50 29.1	....	...
189	2 2	0.0	....	....	0 52 2.0	....	...
190	1 30	0.0	....	....	0 51 30.0	....	...
191	7 8	- 0.3	....	....	0 57 7.7	....	...
192	9 46	0.5	....	....	0 59 45.5	....	...
193	9 46	0.5	....	....	0 59 45.5	....	...
194	7 50	0.6	....	....	0 57 49.4	....	...
195	8 48	0.5	....	....	0 58 47.5	....	...
196	6 26	0.4	....	....	0 56 25.6	....	...
197	7 26	0.5	....	....	0 57 25.5	....	...
198	1 8	0.2	....	....	0 51 7.8	....	...
199	9 55	0.7	....	....	0 59 54.3	....	...
200	6 57	0.6	....	....	0 56 56.4	....	...
201	6 45	0.6	....	....	0 56 44.4	....	...
202	5 54	0.6	....	....	0 55 53.4	....	...
203	4 24	0.5	....	....	0 54 23.5	....	...
204	+ 9 21	- 0.8	....	....	+ 0 59 20.2	....	...

A.R. ^{h.}20 ^{m.}26 to ^{h.}21 ^{m.}26.

Dec. +0 40 to 0 50.

Number of the Star.	Magnitude.	ZONE 138.					ZONE 139.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 138.		Zone 139.	
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	
1	8-9	20 26 26.6	30.7	26.65	-0.43		.....	.....	.....	.....		20 26 26.22	.....	.....
2	11-12	26 58.2	.....	58.20	0.43		.....	.....	.....	.....		26 57.77	.....	.....
3	9-10	27 2.5	6.5	2.50	0.43		.....	.....	.....	.....		27 2.07	.....	.....
4	10-11	27 36.5	40.3	36.40	0.42		.....	.....	.....	.....		27 35.98	.....	.....
5	10-11	27 38.4	42.3	38.35	0.43		.....	.....	.....	.....		27 37.92	.....	.....
6	11	28 21.9	26.1	22.00	0.44		.....	.....	.....	.....		28 21.56	.....	.....
7	9-10	29 19.5	23.4	19.45	0.44		20 29 19.2	23.1	19.15	-0.33		29 19.01	18.82	+0.19	
8	10-11	29 31.8	35.7	31.75	0.44		29 31.4	35.5	31.45	0.33		29 31.31	31.12	+0.19	
9	9-10	29 37.1	41.0	37.05	0.43		29 36.9	40.8	36.85	0.33		29 36.62	36.52	+0.10	
10	9-10	29 59.5	63.4	59.45	0.44		29 59.1	63.1	59.10	0.33		29 59.01	58.77	+0.24	
11	11-12	30 34.0	37.8	33.90	0.44		30 33.3	37.5	33.40	0.33		30 33.46	33.07	+0.39	
12	9	30 50.5	54.5	50.50	0.45		30 50.3	.....	50.30	0.33		30 50.05	49.97	+0.08	
13	9-10	30 55.3	59.4	55.35	0.44		30 55.1	59.0	55.05	0.33		30 54.91	54.72	+0.19	
14	11	31 20.8	24.7	20.75	0.45		31 20.4	24.4	20.40	0.33		31 20.30	20.07	+0.23	
15	7	31 50.8	54.9	50.85	0.45		31	54.7	50.70	0.32		31 50.40	50.38	+0.02	
16	11-12	32 13.3	17.3	13.30	0.45		32 13.0	17.0	13.00	0.32		32 12.85	12.68	+0.17	
17	9-10	32 22.4	26.6	22.50	0.45		32 22.4	26.3	22.35	0.32		32 22.05	22.03	+0.02	
18	8-9	32 52.8	.....	52.80	0.44		32 52.3	56.2	52.25	0.32		32 52.36	51.93	+0.43	
19	10	32 56.6	60.5	56.55	0.45		32	0.3	56.30	0.32		32 56.10	55.98	+0.12	
20	11	33 7.3	11.4	7.35	0.45		.....	.....	.....	.....		33 6.90	.....	.....
21	11	33 16.0	19.9	15.95	0.45		.....	.....	.....	.....		33 15.50	.....	.....
22	11	34 16.8	20.7	16.75	0.46		.....	.....	.....	.....		34 16.29	.....	.....
23	11	34 17.4	21.3	17.35	0.45		.....	.....	.....	.....		34 16.90	.....	.....
24	9-10	34 41.1	45.2	41.15	0.46		34 40.5	.....	40.50	0.32		34 40.69	40.18	+0.51	
25	12	35 22.5	.....	22.50	0.45		.....	.....	.....	.....		35 22.05	.....	.....
26	9	35 26.6	30.9	26.75	0.45		.....	.....	.....	.....		35 26.30	.....	.....
27	9-10	35 35.7	39.7	35.70	0.46		35	39.4	35.40	0.31		35 35.29	35.09	+0.20	
28	11	36 45.7	49.7	45.70	0.46		36 45.1	49.1	45.10	0.31		36 45.24	44.79	+0.45	
29	11	36 53.0	57.2	53.10	0.46		36 52.7	56.7	52.70	0.31		36 52.64	52.39	+0.25	
30	10-11	37 7.1	10.9	7.00	0.46		37 6.7	10.8	6.75	0.31		37 6.54	6.44	+0.10	
31	11	37 32.0	35.8	31.90	0.46		37 31.7	35.6	31.65	0.31		37 31.44	31.34	+0.10	
32	9-10	38 2.2	6.0	2.10	0.46		38 1.8	5.8	1.80	0.31		38 1.64	1.49	+0.15	
33	9-10	38 4.0	8.0	4.00	0.47		38 3.6	7.6	3.60	0.31		38 3.53	3.29	+0.24	
34	12	38 31.3	35.1	31.20	0.47		38	34.7	30.70	0.30		38 30.73	30.40	+0.33	
35	12	38 44.7	48.7	44.70	0.47		.....	.....	.....	.....		38 44.23	.....	.....
36	10-11	39 15.8	19.7	15.75	0.47		39 15.2	19.3	15.25	0.30		39 15.28	14.95	+0.33	
37	11-12	39 27.8	32.0	27.90	0.47		39 27.7	31.7	27.70	0.30		39 27.43	27.40	+0.03	
38	10-11	40 21.0	24.9	20.95	0.48		40 20.6	24.6	20.00	0.30		40 20.47	20.30	+0.17	
39	11-12	40 55.0	58.9	54.95	0.47		40 54.4	58.6	54.50	0.30		40 54.48	54.20	+0.28	
40	11-12	41 17.9	.....	17.90	0.48		41 17.6	21.7	17.65	0.30		41 17.42	17.35	+0.07	
41	8-9	41 27.8	31.8	27.80	0.47		41 27.5	31.4	27.45	0.30		41 27.33	27.15	+0.18	
42	11	42 37.7	41.7	37.70	0.48		42 37.2	41.3	37.25	0.29		42 37.22	36.96	+0.26	
43	11-12	43 16.7	20.6	16.65	0.48		43 16.4	20.3	16.35	0.29		43 16.17	16.06	+0.11	
44	11	43 47.6	51.3	47.45	0.48		43 47.1	51.3	47.20	0.29		43 46.97	46.91	+0.06	
45	9	20 44 14.2	18.4	14.30	-0.48		20 44 13.9	18.0	13.95	-0.29		20 44 13.82	13.66	+0.16	

A.R. ^{h.}20 ^{m.}26 to ^{h.}21 ^{m.}26Dec. +⁰40' to ⁰50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 138.	d.	Zone 139.	d.	Zone 138.	Zone 139.		
1	+ 7 41	-11.3	+ 7 41	+12.2	+ 0 47 29.7	28.8	+ 0.9	
2	7 32	11.4	7 30	12.2	0 47 20.6	17.8	+ 2.8	
3	8 25	11.5	8 24	12.4	0 48 13.5	11.6	+ 1.9	
4	9 29	11.7	9 29	12.5	0 49 17.3	16.5	+ 0.8	
5	5 25	11.3	5 24	12.1	0 45 13.7	11.9	+ 1.8	
6	0 52	10.8	0 50	11.7	0 40 41.2	38.3	+ 2.9	
7	4 40	11.5	4 39	12.4	0 44 28.5	26.6	+ 1.9	
8	3 10	11.3	3 9	12.3	0 42 58.7	56.7	+ 2.0	
9	9 22	12.1	9 21	12.7	0 49 9.9	8.3	+ 1.6	
10	5 13	11.6	5 11	12.3	0 44 61.4	58.7	+ 2.7	
11	0 50	11.9	....	....	0 46 38.1	....	....
12	2 33	11.5	2 31	12.2	0 42 21.5	18.8	+ 2.7	
13	6 10	11.9	6 10	12.5	0 45 58.1	57.5	+ 0.6	
14	3 15	11.6	3 19	12.1	0 43 3.4	6.9	- 3.5	Declination doubtful.
15	2 38	11.6	2 36	12.1	0 42 26.4	23.9	+ 2.5	
16	3 30	11.8	3 30	12.4	0 43 18.2	17.6	+ 0.6	
17	1 29	11.6	1 27	12.2	0 41 17.4	14.8	+ 2.6	
18	8 54	12.6	8 51	13.0	0 48 41.4	38.0	+ 3.4	
19	3 59	12.0	3 59	12.5	0 43 47.0	46.5	+ 0.5	
20	5 48	12.3	....	....	0 45 35.7	....	....
21	6 39	12.4	....	....	0 46 26.6	....	....	Declination doubtful.
22	2 56	12.1	....	....	0 42 43.9	....	....
23	4 7	12.3	....	....	0 43 54.7	....	....	Clouds in zone 139.
24	4 45	12.4	4 41	12.7	0 44 32.6	28.3	+ 4.3	
25	6 8	12.7	....	....	0 45 55.3	....	....
26	7 15	12.9	....	....	0 47 2.1	....	....
27	1 58	12.2	1 55	12.6	0 41 45.8	42.4	+ 3.4	
28	1 11	12.3	1 10	12.6	0 40 58.7	57.4	+ 1.3	
29	3 28	12.6	....	....	0 43 15.4	....	....	Declination doubtful.
30	6 0	13.0	5 58	13.1	0 45 47.0	44.9	+ 2.1	
31	3 48	12.8	2 40	12.8	0 43 35.2	27.2	....
32	9 10	13.5	9 10	13.5	0 48 56.5	56.5	0.0	
33	1 11	12.6	1 20	12.7	0 40 58.4	67.3	....	Zone (?) correct.
34	3 8	12.9	3 10	13.0	0 42 55.1	57.0	- 1.9	a and δ both doubtful in zone 138.
35	2 37	12.9	....	....	0 42 24.1	....	....
36	4 5	13.2	4 4	13.1	0 43 51.8	50.9	+ 0.9	
37	+ 3 18	13.1	+ 3 17	13.1	0 43 4.9	3.9	+ 1.0	
38	- 0 27	12.8	- 0 30	12.8	0 39 20.2	17.2	+ 3.0	
39	+ 7 0	13.8	+ 6 56	13.6	0 46 46.2	42.4	+ 3.8	
40	1 1	13.1	1 0	13.0	0 40 47.9	47.0	+ 0.9	
41	5 2	13.7	5 0	13.4	0 44 48.3	46.6	+ 1.7	
42	5 2	13.9	5 1	13.6	0 44 48.1	47.4	+ 0.7	Bright moonlight.
43	6 42	14.2	6 41	13.8	0 46 27.8	27.2	+ 0.6	
44	7 22	14.4	7 21	13.9	0 47 7.6	7.1	+ 0.5	Elongated ?
45	+ 8 40	-14.6	+ 8 40	+14.1	+ 0 48 25.4	25.9	....

A.R. ^h20 ^m26 to ^h21 ^m26.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 138.					ZONE 139.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 138.	Zone 139.			
46	11	h. m. s. 20 44 22.7	s. 26.8	s. 22.75	-0.48	h. m. s. 20 44 22.6	s. 26.5	s. 22.55	-0.29	h. m. s. 20 44 22.27	s. 22.26	+0.01		
47	11	44 57.5	....	57.50	0.48	44 57.2	....	57.20	0.29	44 57.02	56.91	+0.11
48	11	44 59.0	62.9	58.95	0.48	44 58.7	62.6	58.65	0.29	44 58.47	58.36	+0.11		
49	11	45 1.8	5.7	1.75	0.48	45 1.3	5.3	1.30	0.29	45 1.27	1.01	+0.26		
50	11	45	16.5	12.50	0.48	.....	....	.....	....	45 12.02	.....	....
51	9-10	45 34.0	37.9	33.95	0.48	45 33.8	37.6	33.70	0.29	45 33.47	33.41	+0.06		
52	11	46 34.5	38.4	34.45	0.49	46 34.0	....	34.00	0.29	46 33.96	33.71	+0.25	
53	10-11	47 39.6	43.8	39.70	0.50	.....	....	.....	....	47 39.20	.....	....
54	10-11	47	52.0	48.00	0.50	.....	....	.....	....	47 47.50	.....	....
55	10-11	48 2.6	6.8	2.70	0.49	.....	....	.....	....	48 2.21	.....	....
56	11	48 3.6	7.5	3.55	0.49	48 3.2	7.2	3.20	0.28	48 3.06	2.92	+0.14		
57	11	48 41.9	46.0	41.95	0.50	48 41.7	45.4	41.55	0.28	48 41.45	41.27	+0.18		
58	9-10	48 44.4	48.4	44.40	0.50	48 43.9	47.8	43.85	0.28	48 43.90	43.57	+0.33		
59	9-10	49 15.7	19.6	15.65	0.50	49 15.3	....	15.30	0.28	49 15.15	15.02	+0.13	
60	9-10	49 19.0	23.0	19.00	0.51	49 18.6	22.7	18.65	0.28	49 18.49	18.37	+0.12		
61	10-11	49 42.9	47.0	42.95	0.50	49 42.7	46.6	42.65	0.28	49 42.45	42.37	+0.08		
62	9-10	50 27.4	31.4	27.40	0.50	50 26.9	31.0	26.95	0.28	50 26.90	26.67	+0.23		
63	9-10	50 45.0	49.1	45.05	0.50	50 44.8	48.7	44.75	0.28	50 44.55	44.47	+0.08		
64	9-10	50 50.6	....	50.60	0.50	50 50.3	54.3	50.30	0.28	50 50.10	50.02	+0.08	
65	9-10	51 2.5	6.5	2.50	0.50	51	6.2	2.20	0.28	51 2.00	1.92	+0.08		
66	10	51 7.1	11.1	7.10	0.49	51	10.5	6.50	0.28	51 6.61	6.22	+0.39		
67	9-10	51 13.0	16.9	12.95	0.50	51 12.8	16.7	12.75	0.28	51 12.45	12.47	-0.02		
68	11-12	51	33.2	29.20	0.51	51 28.7	32.7	28.70	0.28	51 28.69	28.42	+0.27		
69	10-11	.....	.....	.....	....	52 14.3	18.4	14.35	0.27	52	14.08	....	
70	11	52 21.0	25.1	21.05	0.52	52	24.6	20.60	0.27	52 20.53	20.33	+0.20		
71	10-11	52 50.7	54.6	50.65	0.52	52 50.2	54.1	50.15	0.27	52 50.13	49.88	+0.25		
72	10-11	53 1.8	5.9	1.85	0.51	53 1.4	....	1.40	0.27	53 1.34	1.13	+0.21	
73	12	53	33.6	29.00	0.52	53 28.9	32.8	28.85	0.27	53 29.08	28.58	+0.50		
74	....	.....	.....	.....	....	53 53.4	57.2	53.30	0.27	53	53.03	....	
75	9-10	54 46.6	50.4	46.50	0.51	54 46.0	50.0	46.00	0.27	54 45.99	45.73	+0.26		
76	....	55 4.9	....	4.90	0.51	55 4.6	8.5	4.55	0.26	55 4.39	4.29	+0.10
77	....	55 8.4	12.6	8.50	0.51	.....	....	.....	....	55 7.99	.....	....
78	9-10	55 30.0	....	30.00	0.53	55 29.6	33.6	29.60	0.26	55 29.47	29.34	+0.13	
79	....	55 39.3	43.3	39.30	0.51	55 38.9	42.8	38.85	0.26	55 38.79	38.59	+0.20	
80	10-11	55 58.6	62.7	58.65	0.52	20 55 58.3	62.0	58.15	0.26	55 58.13	57.89	+0.24		
81	11	56	22.0	18.00	0.53	.....	....	.....	....	56 17.47	.....	....
82	11	56 20.0	24.0	20.00	0.53	.....	....	.....	....	56 19.47	.....	....
83	10	58 25.3	29.2	25.25	0.53	.....	....	.....	....	58 24.72	.....	....
84	10-11	58 30.9	35.0	30.95	0.53	.....	....	.....	....	58 30.42	.....	....
85	10-11	59 6.0	10.0	6.00	0.54	.....	....	.....	....	59 5.46	.....	....
86	11	20 59 9.2	13.1	9.15	0.53	.....	....	.....	....	20 59 8.62	.....	....
87	10-11	21 0 10.8	15.0	10.90	0.54	.....	....	.....	....	21 0 10.36	.....	....
88	11	0 24.6	28.3	24.45	0.53	.....	....	.....	....	0 23.92	.....	....
89	11-12	0 44.7	48.7	44.70	0.54	21 0 44.2	48.2	44.20	0.25	0 44.16	43.95	+0.21		
90	10	21 0 51.6	55.3	51.45	-0.55	21 0 50.9	....	50.90	-0.25	21 0 50.90	50.65	+0.25	

A.R. ^{h.} 20 ^{m.} 26 to ^{h.} 21 ^{m.} 26.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 188.	d.	Zone 189.	d.	Zone 188.	Zone 189.		
46	+ 7 19	-14.5	+ 7 18	-14.0	+ 0 47 4.5	4.0	+ 0.5	
47	6 39	14.5	6 36	14.0	0 46 24.5	22.0	+ 2.5	
48	7 17	14.6	....	....	0 47 2.4	....	...
49	7 2	14.5	7 1	14.0	0 46 47.5	47.0	+ 0.5	
50	7 38	14.7	....	....	0 47 23.3	....	...
51	8 52	14.9	8 53	14.2	0 48 37.1	38.8	- 1.7	
52	3 14	14.2	3 11	13.8	0 42 59.8	57.2	+ 2.6	
53	1 0	14.3	....	....	0 40 45.7	....	...
54	2 26	14.5	....	....	0 42 11.5	....	...
55	5 8	14.9	....	....	0 44 53.1	....	...
56	8 0	15.2	7 59	14.4	0 47 44.8	44.6	+ 0.2	
57	3 59	14.8	3 58	14.1	0 43 44.2	43.9	+ 0.3	
58	2 19	14.6	2 19	13.9	0 42 4.4	5.1	- 0.7	
59	+ 5 40	15.1	+ 5 39	14.3	0 45 24.9	24.7	+ 0.2	
60	- 0 7	14.5	- 0 9	13.7	0 39 38.5	37.3	+ 1.2	
61	+ 6 17	15.3	+ 6 11	14.4	0 45 61.7	56.6	+ 5.1	
62	3 18	15.1	3 14	13.8	0 43 2.9	0.2	+ 2.7	
63	5 0	15.3	4 58	14.3	0 44 44.7	43.7	+ 1.0	
64	6 18	15.5	6 19	14.5	0 46 2.5	4.5	- 2.0	
65	8 7	15.8	8 4	14.7	0 47 51.2	49.3	+ 1.9	
66	10 ..	....	10 0	14.9	0 49	45.1	...	
67	5 50	15.4	5 48	14.5	0 45 34.6	33.5	+ 6.3	
68	4 8	15.4	4 7	14.4	0 43 52.6	52.6	0.0	
69	+ 1 44	15.2	+ 1 41	14.2	0 41 28.8	26.8	+ 2.0	
70	- 0 50	14.9	- 0 51	13.9	0 38 56.1	55.1	+ 1.0	
71	+ 3 18	15.5	+ 3 8	14.4	0 43 2.5	3.6	- 1.1	
72	4 20	15.6	....	....	0 44 4.4	....	...
73	2 50	15.5	2 50	14.4	0 42 34.5	35.6	- 1.1	
74	....	....	9 39	15.1	0 49	23.9	...	
75	7 39	16.3	7 36	15.0	0 47 22.7	21.0	+ 1.7	
76	....	....	9 50	15.3	0 49	34.7	...	
77	....	....	8 5	15.1	0 47	49.9	...	
78	2 40	15.8	2 39	14.6	0 42 24.2	24.4	+ 4.8	
79	....	....	9 9	15.3	0 48	53.7	...	
80	6 27	16.4	6 27	15.0	0 46 10.6	12.0	- 1.4	
81	3 55	16.1	3 52	14.8	0 43 38.9	37.2	+ 1.7	
82	5 10	16.3	5 8	14.9	0 44 53.7	53.1	+ 0.6	
83	5 15	16.7	....	....	0 44 58.3	....	...
84	6 46	16.8	....	....	0 46 29.2	....	...	Clouds in zone 189.
85	0 52	16.2	....	....	0 40 35.8	....	...
86	6 50	17.0	....	....	0 46 33.0	....	...
87	6 48	17.1	....	....	0 46 30.9	....	...
88	8 53	17.3	....	....	0 48 35.7	....	...
89	+ 9 7	17.5	+ 9 5	15.8	0 48 49.5	49.2	+ 0.3	Comp., 18" p.
90	- 0 28	-16.4	- 0 30	-14.8	+ 0 39 15.6	15.2	+ 0.4	

A.R. ^{h.}20 ^{m.}26 to ^{h.}21 ^{m.}26.

Dec. +0° 40' to 0° 50'.

Number of the Star.	Magnitude.	ZONE 138.					ZONE 139.					MEAN RIGHT ASCENSION. 1859.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 138.		Zone 139.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	
91	9-10	21 1 27.3	31.3	27.30	-0.55		21 1 26.8	31.0	26.90	-0.25		21 1 26.75	26.65	+0.10			
92	9-10	1 52.0	55.8	51.90	0.55		1 51.2	55.4	51.30	0.25		1 51.35	51.05	+0.30			
93	12	.....	62.2	58.20	0.54		.....	.....	.....	.....		1 57.66	.....	.....	
94	....	.....	.....	.....	.....		2 17.1	20.8	16.95	0.25		2	16.70	.....		
95	9	2 52.0	55.9	51.95	0.54		2 51.5	55.3	51.40	0.24		2 51.41	51.16	+0.25			
96	9-10	2 56.4	60.0	56.20	0.55		2	59.6	55.60	0.24		2 55.65	55.36	+0.29			
97	11-12	3 37.8	42.0	37.90	0.55		.....	.....	.....	.....		3 37.35	.....	.....	
98	....	4 0.1	4.3	0.20	0.55		.....	.....	.....	.....		3 59.65	.....	.....	
99	11	4 8.0	12.1	8.05	0.56		4 7.7	11.9	7.80	0.24		4 7.49	7.56	-0.07			
100	10	4 35.8	40.0	35.90	0.56		4 35.6	39.6	35.60	0.24		4 35.34	35.36	-0.02			
101	11	4 57.4	61.3	57.35	0.55		.....	.....	.....	.....		4 56.80	.....	.....	
102	10-11	5 33.0	.....	33.00	0.55		.....	.....	.....	.....		5 32.45	.....	.....	
103	11-12	5 35.2	39.0	35.10	0.56		.....	.....	.....	.....		5 34.54	.....	.....	
104	11	5 44.0	.....	44.00	0.55		.....	.....	.....	.....		5 43.45	.....	.....	
105	....	5	48.0	44.00	0.55		5 43.7	.....	43.70	0.24		5 43.45	43.46	-0.01			
106	10	6 12.5	16.6	12.55	0.55		6	16.0	12.00	0.24		6 12.00	11.76	+0.24			
107	10-11	7 11.7	15.7	11.70	0.56		7 11.3	15.4	11.35	0.24		7 11.14	11.11	+0.03			
108	10-12	7 45.1	49.2	45.15	0.56		7 44.8	48.9	44.85	0.23		7 44.59	44.62	-0.03			
109	....	.....	.....	.....	.....		8 22.9	26.9	22.90	0.23		8	22.67	.....		
110	....	.....	.....	.....	.....		8 51.3	55.0	51.15	0.23		8	50.92	.....		
111	....	.....	.....	.....	.....		9 2.4	6.4	2.40	0.23		9	2.17	.....		
112	....	.....	.....	.....	.....		9 5.1	9.1	5.10	0.23		9	4.87	.....		
113	....	.....	.....	.....	.....		9 21.7	.....	21.70	0.23		9	21.47	.....		
114	....	.....	.....	.....	.....		9 54.5	58.7	54.60	0.23		9	54.37	.....		
115	10-11	10 18.7	22.6	18.65	0.57		10 18.2	22.3	18.25	0.23		10 18.08	18.02	+0.06			
116	11	10 31.9	35.9	31.90	0.56		10 31.5	35.5	31.50	0.23		10 31.34	31.27	-0.03			
117	....	.....	.....	.....	.....		11 24.0	27.9	23.95	0.23		11	23.72	.....		
118	9-10	11 33.6	37.6	33.60	0.58		11 33.3	37.0	33.15	0.23		11 33.02	32.92	+0.10			
119	....	.....	.....	.....	.....		11 53.2	.....	53.20	0.22		11	52.98	.....		
120	12	12 9.4	13.4	9.40	0.58		12 9.0	13.0	9.00	0.22		12 8.82	8.78	+0.04			
121	11-12	12 42.5	46.7	42.60	0.58		12 42.2	.....	42.20	0.22		12 42.02	41.98	+0.04			
122	11-12	12	61.1	57.10	0.58		12 56.8	60.7	56.75	0.22		12 56.52	56.53	-0.01			
123	....	.....	.....	.....	.....		12 58.5	62.6	58.55	0.22		12	58.33	.....		
124	11	13 2.3	6.4	2.35	0.58		13	6.0	2.00	0.22		13 1.77	1.78	-0.01			
125	11	13 23.0	27.0	23.00	0.57		13 22.9	26.6	22.75	0.22		13 22.43	22.53	-0.10			
126	....	.....	.....	.....	.....		13 42.2	48.1	42.15	0.22		13	41.93	.....		
127	10	14 14.3	18.5	14.40	0.57		.....	.....	.....	.....		14 13.83	.....	.....	
128	7	14 39.9	43.7	39.80	0.58		14 39.5	43.4	39.45	0.22		14 39.22	39.23	.....		
129	10-12	15 12.2	16.1	12.15	0.60		15 11.9	15.8	11.85	0.21		15 11.55	11.64	.....		
130	12	15 26.1	30.3	26.20	0.58		15 25.9	30.0	25.95	0.21		15 25.62	25.74	.....		
131	11-12	16 14.8	18.8	14.80	0.58		16	18.2	14.20	0.21		16 14.22	13.99	.....		
132	9-10	16 44.9	48.9	44.90	0.59		16 44.6	48.6	44.60	0.21		16 44.31	44.39	.....		
133	10	16 51.5	55.5	51.50	0.59		16 51.0	55.2	51.10	0.21		16 50.91	50.89	.....		
134	11	17 53.7	57.6	53.65	0.60		.....	.....	.....	.....		17 53.05	.....	.....	
135	11	21 18 6.4	10.5	6.45	-0.60		21 18 6.3	10.0	6.15	-0.21		21 18 5.85	5.94	.....		

A.R. ^{h.} 20 ^{m.} 26 to ^{h.} 21 ^{m.} 26.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 128.	d.	Zone 129.	d.	Zone 128.	Zone 129.		
91	+ 2 21	-16.8	+ 2 19	-15.2	+ 0 42 4.2	3.8	+ 0.4	
92	1 45	16.8	1 41	15.2	0 41 28.2	25.8	+ 2.4	
93	7 39	17.6	....	....	0 47 21.4	....	....
94	....	....	3 9	15.4	0 42	53.6	....
95	9 26	18.0	9 29	16.1	0 49 8.0	12.9	- 4.9	
96	3 51	17.3	3 50	15.5	0 43 32.7	34.5	- 1.8	Comp. s. f. 0.5".
97	7 45	17.9	....	....	0 47 27.1	....	....
98	8 9	18.0	....	....	0 47 51.0	....	....
99	3 2	17.4	2 56	15.5	0 42 44.6	40.5	+ 4.1	
100	2 48	17.5	....	....	0 42 30.5	....	....
101	7 23	18.1	7 25	16.1	0 47 4.9	8.9	- 4.0	
102	8 48	18.4	8 40	16.3	0 48 29.6	23.7	+ 5.9	Bright moonlight interferes.
103	5 0	17.9	....	....	0 44 42.1	....	....
104	9 25	18.5	....	....	0 49 6.5	....	....
105	9 37	18.5	9 38	16.4	0 49 18.5	21.6	- 3.1	
106	9 49	18.6	9 50	16.5	0 49 30.4	33.5	- 3.1	
107	6 52	18.4	6 51	16.3	0 46 33.6	34.7	- 1.1	
108	7 2	18.5	7 0	16.3	0 46 43.5	43.7	- 0.2	
109	....	....	0 30	15.8	0 40	14.2	....
110	....	....	5 10	16.3	0 44	53.7	....
111	....	....	4 44	16.3	0 44	27.7	....
112	....	....	9 0	16.7	0 48	43.3	....
113	....	....	2 42	16.1	0 42	25.9	....
114	....	....	9 40	16.9	0 49	23.1	....
115	7 18	19.0	7 12	16.7	0 46 59.0	55.3	+ 4.7	
116	9 1	19.3	9 0	16.9	0 48 41.7	43.1	- 1.4	
117	....	....	8 10	16.9	0 47	53.1	....
118	1 54	18.6	1 52	16.2	0 41 35.4	35.8	- 0.3	
119	....	....	9 30	17.0	0 49	13.0	....
120	4 35	19.0	4 42	16.6	0 44 16.0	25.4	- 9.4	
121	2 20	18.8	2 21	16.4	0 42 1.2	4.6	- 3.4	
122	4 56	19.2	4 55	16.7	0 44 36.8	38.3	- 1.5	
123	....	....	4 4	16.6	0 43	47.4	....
124	3 0	19.0	2 56	16.5	0 42 41.0	39.5	+ 1.5	
125	8 30	19.7	8 29	17.1	0 48 10.3	11.9	- 1.6	
126	....	....	1 50	16.5	0 41	33.5	....
127	10 22	20.1	....	....	0 50 1.9	....	....
128	6 11	19.6	6 10	17.0	0 45 51.4	53.0	+ 1.6	
129	0 18	19.0	0 15	16.4	0 39 59.0	58.6	+ 0.4	
130	8 20	20.0	....	....	0 48 0.0	....	....
131	7 28	20.1	7 30	16.6	0 47 7.9	13.4	- 5.5	
132	5 3	19.9	4 59	17.1	0 44 43.1	41.9	+ 1.2	Cloudy in zone 129.
133	4 1	19.7	....	....	0 43 41.3	....	....
134	2 47	19.8	....	....	0 42 27.2	....	....
135	+ 4 50	-20.1	+ 4 49	-17.2	+ 0 44 29.9	31.8	- 1.9	

ZONE OBSERVATIONS.

A.R. ^{h.}20 ^{m.}26 to ^{h.}21 ^{m.}26.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 138.					ZONE 139.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 138.	Zone 139.			
136	9-10	^{h.} 21 ^{m.} 18 ^{s.} 11.5	^{s.} 15.6	^{s.} 11.55	-0.60	^{h.} 21 ^{m.} 18 ^{s.} 11.2	^{s.} 15.3	^{s.} 11.25	-0.21	^{h.} 21 ^{m.} 18 ^{s.} 10.95	^{s.} 11.04	-0.09		
137	11	18	39.4	35.40	0.61	.....	.....	.....	.....	18 34.79	.....	.....
138	11	18 41.9	45.8	41.85	0.60	21 18 41.6	45.3	41.45	-0.20	18 41.20	41.25	-0.05		
139	11	19 0.2	....	0.20	0.59	.....	.....	.....	.....	18 59.01	.....	.....
140	10	19 5.7	9.8	5.75	0.61	.....	.....	.....	.....	19 5.14	.....	.....
141	11	19 55.5	59.0	55.25	0.60	.....	.....	.....	.....	19 54.65	.....	.....
142	10-11	20 7.2	11.1	7.15	0.61	.....	.....	.....	.....	20 6.54	.....	.....
143	11	20 13.6	17.6	13.60	0.61	.....	.....	.....	.....	20 12.99	.....	.....
144	10	20 40.8	44.7	40.75	0.60	.....	.....	.....	.....	20 40.15	.....	.....
145	11-12	21 26.9	30.7	26.80	0.61	.....	.....	.....	.....	21 26.19	.....	.....
146	10-11	22 11.0	15.1	11.05	0.61	.....	.....	.....	.....	22 10.44	.....	.....
147	10-11	22 22.5	26.5	22.50	0.61	.....	.....	.....	.....	22 21.89	.....	.....
148	11-12	22 56.6	....	56.60	0.62	.....	.....	.....	.....	22 55.98	.....	.....
149	10-11	24 19.6	23.5	19.55	0.61	.....	.....	.....	.....	24 18.94	.....	.....
150	10-11	24 37.4	41.4	37.40	0.62	.....	.....	.....	.....	24 36.78	.....	.....
151	9	24 47.5	51.4	47.45	0.62	.....	.....	.....	.....	24 46.83	.....	.....
152	11	25 22.9	26.9	22.90	0.62	.....	.....	.....	.....	25 22.28	.....	.....
153	9-10	26 45.2	....	45.20	0.61	.....	.....	.....	.....	26 44.59	.....	.....
154	....	21 26 56.5	....	56.50	-0.62	.....	.....	.....	.....	21 26 55.88	.....	.....

A.R. ^{h.}20 ^{m.}26 to ^{h.}21 ^{m.}26.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 138.	d.	Zone 139.	d.	Zone 138.	Zone 139.		
136	+ 3 24	-19.9	+ 3 20	-17.0	+ 0 43 4.1	3.0	+ 1.1	
137	0 9	19.6	....	....	0 39 49.4	....	...
138	2 50	19.9	+ 2 40	-17.0	0 42 30.1	23.0	+ 7.1	
139	+ 9 43	20.8	....	....	0 49 22.2	....	...
140	- 0 32	19.6	....	....	0 39 8.4	....	...
141	+ 3 27	20.2	....	....	0 43 6.8	....	...
142	0 23	19.8	....	....	0 40 3.2	....	...
143	1 33	19.9	....	....	0 41 13.1	....	...
144	7 26	20.8	....	....	0 47 5.2	....	...
145	1 15	20.1	....	....	0 40 54.9	....	...
146	2 28	20.5	....	....	0 42 7.5	....	...
147	5 13	20.9	....	....	0 44 52.1	....	...
148	1 30	20.5	....	....	0 41 9.5	....	...
149	+ 5 26	21.3	....	....	0 45 4.7	....	...
150	- 0 24	20.6	....	....	0 39 15.4	....	...
151	+ 3 49	21.0	....	....	0 43 28.0	....	...
152	0 31	20.8	....	....	0 40 10.2	....	...
153	10 22	22.3	....	....	0 49 59.7	....	...
154	+ 5 51	-21.8	....	....	+ 0 45 29.2	....	...	Moon too bright to proceed.

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 140.					ZONE 141.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 140.		Zone 141.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	
1	12	21 18 6.9	11.1	7.00	-1.40		21 18 7.2	11.1	7.15	-1.35		21 18 5.60	5.80	-0.20	
2	9	18 12.0	16.0	12.00	1.41		18 12.3	16.2	12.25	1.35		18 10.59	10.90	-0.31	
3	12	18 36.2	40.1	36.15	1.42		18 36.2	40.1	36.15	1.35		18 34.73	34.80	-0.07	
4	....	18 42.4	46.5	42.45	1.41		18	46.6	42.60	1.35		18 41.04	41.25	-0.21	
5	11-12	20 41.4	45.4	41.40	1.41		20 41.4	45.4	41.40	1.36		20 39.99	40.04	-0.05	
6	12	21 27.5	31.4	27.45	1.44		.....	.....	.....	.....		21 26.01	.....	.....
7	11-12	22 11.8	15.7	11.75	1.44		.....	.....	.....	.....		22 10.31	.....	.....
8	11-12	22 23.3	27.3	23.30	1.43		.....	.....	.....	.....		22 21.87	.....	.....
9	10	22 31.0	34.8	30.90	1.41		.....	.....	.....	.....		22 29.49	.....	.....
10	11-12	24 20.2	24.3	20.25	1.44		24 20.4	24.3	20.35	1.38		24 18.81	18.97	-0.16	
11	11-12	24 38.6	....	38.60	1.46		.....	.....	.....	.....		24 37.14	.....	.....
12	9	24 48.5	52.4	48.45	1.45		24 48.5	52.4	48.45	1.38		24 47.00	47.07	-0.07	
13	....	.....	.....	.....	.....		25 10.0	13.9	9.95	1.38		25	8.57	.....
14	12-13	25 23.8	27.8	23.80	1.46		25 23.7	27.6	23.65	1.38		25 22.34	22.27	+0.07	
15	12	26 28.6	32.6	28.60	1.46		.....	.....	.....	.....		26 27.14	.....	.....
16	9-10	26 46.3	....	46.30	1.44		26 46.3	....	46.30	1.39		26 44.86	44.91	-0.05	
17	9-10	26 53.3	57.5	53.40	1.45		26 53.5	57.4	53.45	1.39		26 51.95	52.06	-0.11	
18	12	27 31.3	35.4	31.35	1.47		27 31.5	35.4	31.45	1.39		27 29.88	30.06	-0.18	
19	11	27 46.5	50.6	46.55	1.46		27 46.4	50.6	46.50	1.39		27 45.09	45.11	-0.02	
20	11-12	27 58.1	62.1	58.10	1.45		.....	.....	.....	.....		27 56.65	.....	.....
21	12-13	29 36.0	39.9	35.95	1.48		29 36.0	40.0	36.00	1.40		29 34.47	34.60	-0.13	
22	11-12	30 22.7	....	22.70	1.46		30 22.9	26.7	22.80	1.40		30 21.24	21.40	-0.16	
23	11	30 24.7	....	24.70	1.47		30	28.5	24.50	1.40		30 23.23	23.10	+0.13	
24	11	30 30.0	34.0	30.00	1.47		30 30.0	34.0	30.00	1.40		30 28.53	28.60	-0.07	
25	12	30	48.1	44.10	1.48		.....	.....	.....	.....		30 42.62	.....	.....
26	11-12	31 48.8	53.1	48.95	1.50		31 48.8	52.8	48.80	1.41		31 47.45	47.39	+0.06	
27	12-13	32 0.4	4.4	0.40	1.49		32 0.4	4.4	0.40	1.41		31 58.91	58.99	-0.08	
28	12	32 40.2	44.3	40.25	1.49		32 40.3	44.3	40.30	1.41		32 38.76	38.89	-0.13	
29	12	33 1.6	....	1.60	1.49		33 1.3	5.4	1.35	1.42		32 60.11	59.93	+0.18	
30	10-11	33 16.8	20.7	16.75	1.49		33 16.7	20.8	16.75	1.42		33 15.26	15.33	-0.07	
31	9	33 57.2	61.1	57.15	1.51		33 56.9	61.0	56.95	1.42		33 55.64	55.53	+0.11	
32	12-13	33 59.9	64.0	59.95	1.51		33 59.4	63.5	59.45	1.42		33 58.44	58.03	+0.41	
33	10-11	36 3.7	7.7	3.70	1.50		36 3.8	7.7	3.75	1.43		36 2.20	2.32	-0.12	
34	11-12	36	18.1	14.10	1.49		36 14.3	18.3	14.30	1.43		36 12.61	12.87	-0.26	
35	10-11	36	21.5	17.50	1.50		36 17.6	21.6	17.60	1.43		36 16.00	16.17	-0.17	
36	12	37 4.3	8.8	4.55	1.50		37 4.9	8.8	4.85	1.44		37 3.05	3.41	-0.36	
37	....	.....	.....	.....	.....		37 10.7	14.3	10.50	1.44		37	9.06	.....
38	....	37 37.6	41.6	37.60	1.50		37 37.7	41.6	37.65	1.44		37 36.10	36.21	-0.11	
39	11-12	37 47.0	51.1	47.05	1.53		37 47.0	50.9	46.95	1.44		37 45.52	45.51	+0.01	
40	11	38 52.5	56.5	52.50	1.52		37 52.3	56.3	52.30	1.44		37 50.98	50.86	+0.12	
41	11-12	39 55.4	59.3	55.35	1.54		39 55.2	59.2	55.20	1.45		39 53.81	53.75	+0.06	
42	11-12	40 13.7	....	13.70	1.55		40 13.4	17.6	13.50	1.45		40 12.15	12.05	+0.10	
43	12	40 50.0	53.9	49.95	1.53		40 49.9	53.9	49.90	1.45		40 48.42	48.45	-0.03	
44	12-13	41 18.0	22.2	18.10	1.56		41 17.8	21.8	17.80	1.46		41 16.54	16.34	+0.20	
45	12	21 41 43.5	47.6	43.55	-1.55		21 41 43.5	47.5	43.50	-1.46		21 41 42.00	42.04	-0.04	

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 140.	d.	Zone 141.	d.	Zone 140.	Zone 141.		
1	+ 4 49	-21.9	+ 4 49	-23.1	+ 0 44 27.1	25.9	+ 1.2	
2	3 22	21.6	3 23	22.9	0 43 0.4	0.1	+ 0.3	
3	0 7	21.1	0 7	22.3	0 39 45.9	44.7	+ 1.2	
4	2 50	21.6	2 50	22.8	0 42 28.4	27.2	+ 1.2	
5	7 13	22.5	7 12	23.7	0 46 50.5	48.3	+ 2.2	
6	1 14	21.5	....	....	0 40 52.5	....	...	Slightly blue.
7	2 27	21.8	....	....	0 42 5.2	....	...
8	5 13	22.2	....	....	0 44 50.8	....	...
9	10 34	23.2	....	....	0 50 10.8	....	...
10	+ 5 23	22.4	5 23	23.6	0 45 60.6	59.4	+ 1.2	
11	- 0 29	21.5	....	....	0 39 9.5	....	...
12	+ 3 48	22.2	3 47	23.3	0 43 25.8	23.7	+ 2.1	
13	....	....	0 31	22.8	0 40	8.2	...	
14	0 30	21.7	0 34	22.8	0 40 8.3	11.2	- 2.9	
15	3 8	22.2	3 8	23.3	0 42 45.8	44.7	+ 1.1	
16	10 20	23.3	10 22	24.4	0 49 56.7	57.6	- 0.9	
17	5 50	22.7	5 53	23.8	0 45 27.3	29.2	- 1.9	
18	2 40	22.2	2 40	23.3	0 42 17.8	16.7	+ 1.1	
19	6 25	22.9	6 26	24.0	0 46 2.1	12.0	+ 0.1	
20	8 ..	....	....	....	.....	....	...
21	2 52	22.5	2 51	23.5	0 42 29.5	27.5	+ 2.0	
22	10 0	23.7	10 0	24.7	0 49 36.3	35.3	+ 1.0	
23	8 48	23.5	8 49	24.5	0 48 24.5	24.5	0.0	
24	8 50	23.5	8 50	24.5	0 48 26.5	25.5	+ 1.0	
25	3 54	22.7	....	....	0 43 31.3	....	...
26	1 55	22.5	1 56	23.4	0 41 32.5	32.6	- 0.1	
27	4 8	22.8	4 12	23.8	0 43 45.2	48.2	- 3.0	
28	4 40	23.0	4 39	24.0	0 44 17.0	15.0	+ 2.0	
29	6 36	23.3	6 38	24.3	0 46 12.7	13.7	- 1.0	
30	6 33	23.4	6 33	24.3	0 46 9.6	8.7	+ 0.9	
31	0 27	22.4	0 29	23.3	0 40 4.6	5.7	- 1.1	
32	0 28	22.4	0 28	23.3	0 40 5.6	4.7	+ 0.9	
33	7 25	23.7	7 25	24.6	0 47 1.3	0.4	+ 0.9	Few stars passing.
34	9 20	24.0	9 19	25.0	0 48 56.0	54.0	+ 2.0	
35	4 35	23.2	4 36	24.2	0 44 11.8	11.8	0.0	
36	7 2	23.7	7 3	24.6	0 46 38.3	38.4	- 0.1	Five stars in form of a V.
37	....	....	8 20	24.8	0 47	55.2	...	
38	....	....	8 39	24.9	0 48	14.1	...	
39	0 20	22.6	0 20	23.5	0 39 57.4	56.5	+ 0.9	
40	1 50	22.9	1 50	23.8	0 41 27.1	26.2	+ 0.9	
41	2 10	23.1	2 11	23.9	0 41 46.9	47.1	- 0.2	
42	1 26	23.0	1 28	23.9	0 41 3.0	4.1	- 1.1	
43	7 1	23.0	7 2	24.8	0 46 38.0	37.2	+ 0.8	
44	0 22	22.9	0 14	23.7	0 39 59.1	50.3	+ 8.8	Declination doubtful in zone 140.
45	+ 4 50	-23.6	+ 4 50	-24.5	+ 0 44 26.4	25.5	+ 0.9	

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.

Dec. +0° 40' to 0° 50'.

Number of the Star.	Magnitude.	ZONE 140.					ZONE 141.					MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 140.		Zone 141.				
										h. m. s.	s.	h. m. s.	s.			
46	11	21 42 11.3	15.5	11.40	-1.54	21 42 11.2	15.3	11.25	-1.46	21 42 9.86	9.79	+0.06				
47	10	42 35.5	39.5	35.50	1.54	42 35.8	39.6	35.70	1.46	42 33.96	34.24	+0.28				
48	12	42 54.4	58.8	54.65	1.55	42 54.4	58.5	54.45	1.46	42 53.10	52.99	+0.10				
49	....	.....	.....	.....	....	43 29.6	....	29.60	1.46	43	28.14	....			
50	10-11	43 33.9	38.1	34.00	1.56	43 34.1	38.1	34.10	1.46	43 32.43	32.64	-0.21				
51	10	.....	.....	.....	....	43 57.0	60.8	56.90	1.47	43	55.43	....			
52	11	44 10.8	14.8	10.80	1.56	44 10.7	14.7	10.70	1.47	44 9.24	9.23	+0.01				
53	10-11	44 32.0	36.2	32.10	1.55	44 32.0	36.0	32.00	1.47	44 30.55	30.53	+0.02				
54	8-9	45 2.3	6.3	2.30	1.56	45 2.3	6.3	2.30	1.47	45 0.74	0.83	-0.09				
55	11-12	45 38.3	42.3	38.30	1.58	45	42.3	38.30	1.47	45 36.72	36.83	-0.11				
56	11-12	46 20.0	24.0	20.00	1.57	46 20.0	24.0	20.00	1.48	46 18.43	18.52	-0.09				
57	11-12	46 21.8	25.8	21.80	1.57	46 21.8	25.7	21.75	1.48	46 20.23	20.27	-0.04				
58	12	47	24.7	20.70	1.56	.....	.....	.....	....	47 19.14	.....	....		
59	10-11	47 36.6	40.6	36.60	1.57	47 36.6	40.7	36.65	1.48	47 35.03	35.17	-0.14				
60	12-13	48 5.2	9.1	5.15	1.59	48 5.0	9.0	5.00	1.48	48 3.56	3.52	+0.04				
61	12-13	49 1.8	5.8	1.80	1.58	49 1.9	5.8	1.85	1.49	49 0.22	0.36	-0.14				
62	12	49 18.9	22.9	18.90	1.59	.....	.....	.....	....	49 17.31	.....	....		
63	11-12	49 41.1	45.2	41.15	1.58	49 41.4	45.3	41.35	1.49	49 39.57	39.86	-0.29				
64	11	50 29.4	33.5	29.45	1.61	50 29.2	33.3	29.25	1.49	50 27.84	27.76	+0.08				
65	....	.....	.....	.....	....	51 15.1	19.0	15.05	1.50	51	13.55	....			
66	12-13	52 5.0	9.1	5.05	1.61	52 5.2	9.1	5.15	1.50	52 3.44	3.65	-0.21				
67	11-12	52 56.0	60.2	56.10	1.61	52 56.0	60.1	56.05	1.50	52 54.49	54.55	-0.06				
68	12-13	52 58.8	62.7	58.75	1.61	52 59.0	62.7	58.85	1.50	52 57.14	57.35	-0.21				
69	....	.....	.....	.....	....	53 31.7	.....	31.70	1.50	53	30.20	....			
70	12-13	53 57.6	.....	57.60	1.62	53 57.7	61.6	57.65	1.51	53 55.98	56.14	-0.16			
71	12	54	10.0	6.00	1.60	54 6.5	10.1	6.30	1.51	54 4.40	4.79	-0.39				
72	10	55 4.9	8.9	4.90	1.63	55 4.7	8.7	4.70	1.51	55 3.27	3.19	+0.08				
73	9-10	55 24.8	28.9	24.85	1.62	55 24.6	.....	24.60	1.51	55 23.23	23.09	+0.14			
74	12	55 39.4	43.8	39.60	1.63	55 39.4	43.3	39.35	1.51	55 37.97	37.84	+0.13				
75	12	55 42.6	46.4	42.50	1.62	55	46.5	42.50	1.51	55 40.88	40.99	-0.11				
76	13	56 14.5	18.6	14.55	1.65	.....	.....	.....	....	56 12.90	.....	....		
77	9-10	56 15.7	19.8	15.75	1.65	56 15.6	19.5	15.55	1.52	56 14.10	14.03	+0.07				
78	11-13	56 42.0	46.0	42.00	1.63	.....	.....	.....	....	56 40.37	.....	....		
79	11-12	57 38.4	42.5	38.45	1.63	57 38.7	42.5	38.60	1.52	57 36.82	37.08	-0.26				
80	10	58 6.3	10.3	6.30	1.63	58 6.4	10.3	6.35	1.52	58 4.67	4.83	-0.16				
81	9-10	58 15.3	19.3	15.30	1.63	58 15.4	19.3	15.35	1.52	58 13.67	13.83	-0.16				
82	9-10	58 28.1	32.0	28.05	1.65	58 27.8	31.9	27.85	1.52	58 26.40	26.33	+0.07				
83	9	21 58 51.6	55.4	51.50	1.66	21 58 51.4	55.4	51.40	1.53	21 58 49.84	49.87	-0.03				
84	10-11	22 0 2.7	6.7	2.70	1.65	22 0 2.6	6.8	2.70	1.53	22 0 1.05	1.17	-0.12				
85	....	0 11.2	15.0	11.10	1.65	0 11.4	15.3	11.35	1.53	0 9.45	9.82	-0.37			
86	12	0 22.8	....	22.80	1.65	0 22.9	26.9	22.90	1.53	0 21.15	21.37	-0.22			
87	12	0 36.3	40.2	36.25	1.67	0 36.3	40.1	36.20	1.53	0 34.58	34.67	-0.09				
88	11-12	0 37.3	41.4	37.35	1.65	0	41.3	37.30	1.53	0 35.70	35.77	-0.07				
89	12	1 18.6	22.7	18.65	1.66	1 18.7	22.7	18.70	1.54	1 16.99	17.16	-0.17				
90	12	22 2	24.9	20.90	-1.66	22 2 21.1	25.3	21.20	-1.54	22 2 19.24	19.66	-0.42				

A.R. ^h 21 ^m 18 to ^h 22 ^m 26.Dec. +^o 40 to ^o 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 140.	d.	Zone 141.	d.	Zone 140.	Zone 141.		
46	+ 6 20	-23.9	+ 6 21	-24.8	+ 0 45 56.1	56.2	- 0.1	
47	10 38	24.7	10 39	25.6	0 50 13.3	13.4	- 0.1	
48	5 27	23.8	5 27	24.7	0 45 3.2	2.3	+ 0.9	
49	....	....	1 8	24.0	0 40	44.0	....
50	3 9	23.5	3 9	24.4	0 42 45.5	44.6	+ 0.9	
51	10 ..	....	10 41	25.6	0 50	15.4	....
52	3 30	24.6	3 36	24.5	0 43 5.4	11.5	- 6.1	
53	8 38	24.5	8 40	25.3	0 48 13.5	14.7	- 1.2	
54	5 19	23.9	5 19	24.8	0 44 55.1	54.2	+ 0.9	
55	2 7	23.4	2 6	24.3	0 41 43.6	41.7	+ 1.9	
56	5 1	24.0	5 1	24.8	0 44 37.0	36.2	+ 0.8	
57	7 9	24.4	7 10	25.2	0 46 44.6	44.8	- 0.2	
58	10 32	25.0	....	....	0 50 7.0	....	....
59	8 33	24.7	8 33	25.5	0 48 8.3	7.5	+ 0.8	
60	3 43	23.9	3 42	24.7	0 43 19.1	17.3	+ 1.8	
61	7 29	24.6	....	....	0 47 4.4	....	....	Slightly nebulous.
62	4 13	24.1	....	....	0 43 48.9	....	....
63	+ 8 24	24.8	+ 8 25	25.6	0 47 59.2	59.4	- 0.2	
64	- 0 31	23.3	- 0 32	24.1	0 39 5.7	3.9	+ 1.8	
65	....	....	+ 1 0	24.4	0 40	35.6	....
66	+ 3 38	24.2	3 39	24.9	0 43 13.8	14.1	- 0.3	
67	6 34	24.7	6 35	25.5	0 46 9.3	9.5	- 0.2	
68	7 3	24.8	7 3	25.6	0 46 38.2	37.4	+ 0.8	
69	....	....	7 59	25.8	0 47	33.2	....
70	5 27	24.6	5 22	25.4	0 44 62.4	56.6	+ 5.8	Moon affects the magnitudes.
71	10 11	25.4	10 18	26.2	0 49 45.6	51.8	- 6.2	
72	4 22	24.5	4 22	25.3	0 43 57.5	56.7	+ 0.8	
73	7 16	25.0	7 8	25.7	0 46 51.0	42.3	....
74	4 54	24.6	4 57	25.4	0 44 29.4	31.6	- 2.2	
75	6 38	24.9	6 39	25.7	0 46 13.1	13.3	- 0.2	
76	0 28	23.9	....	....	0 40 4.1	....	....
77	0 59	24.0	1 0	24.8	0 40 35.0	35.2	- 0.2	
78	8 11	25.3	....	....	0 47 45.7	....	....	Declination doubtful.
79	8 49	25.4	....	....	0 48 23.6	....	....	Very few stars.
80	9 21	25.6	9 23	26.3	0 48 55.4	56.7	- 1.3	
81	10 14	25.7	10 5	26.4	0 49 48.3	38.6	+ 9.7	
82	4 59	24.8	4 59	25.6	0 44 34.2	33.4	+ 0.8	
83	2 8	24.4	2 8	25.1	0 41 43.6	42.9	+ 0.7	Lamp troublesome, zone 140.
84	5 23	25.0	5 23	25.7	0 44 58.0	57.3	+ 0.7	
85	....	....	9 5	26.3	0 48	38.7	....
86	7 7	25.3	7 8	26.0	0 46 41.7	42.0	- 0.3	
87	2 4	24.5	2 4	25.2	0 41 39.5	38.8	+ 0.7	
88	7 24	25.4	7 25	25.1	0 46 58.6	59.9	- 1.3	
89	6 42	25.3	6 44	26.0	0 46 16.7	18.0	- 1.3	
90	+ 9 0	-25.8	+ 9 2	-26.5	+ 0 48 34.2	35.5	- 1.3	

A.R. ^{h.} 21 ^{m.} 18 to ^{h.} 22 ^{m.} 26.Dec. +⁰ 40 to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 140.				ZONE 141.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 140.	Zone 141.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.
91	12	22 2 22.5	26.2	22.35	-1.66	22 2 21.9	26.0	21.95	-1.54	22 2 20.69	20.41	+0.28
92	12	2	36.6	32.60	1.67	2 32.3	36.4	32.35	1.54	2 30.93	30.81	+0.12
93	12	2 45.8	50.2	46.00	1.68	.....	.....	.....	.....	2 44.32	.....	.....
94	10-12	3 1.7	5.4	1.55	1.68	3 1.6	5.5	1.55	1.55	2 59.87	60.00	-0.13
95	....	3 10.6	14.4	10.50	1.68	3	14.5	10.50	1.55	3 8.82	8.95	-0.13
96	12	4 6.2	9.9	6.05	1.68	4 6.2	10.2	6.20	1.55	4 4.37	4.65	-0.28
97	11-12	4 7.5	11.7	7.60	1.69	4 7.3	11.4	7.35	1.55	4 5.91	5.80	+0.11
98	10-12	4 21.7	25.8	21.75	1.67	4 21.8	26.0	21.90	1.55	4 20.08	20.35	-0.27
99	11-12	5 26.6	30.6	26.60	1.69	5 26.3	30.3	26.30	1.56	5 24.91	24.74	+0.17
100	....	.....	.....	.....	....	5 51.6	55.8	51.70	1.56	5	50.14	....
101	....	.....	.....	.....	....	6 1.9	5.8	1.85	1.56	6	0.29	....
102	....	.....	.....	.....	....	6 59.0	62.9	58.95	1.56	6	57.39	....
103	....	.....	.....	.....	....	7 10.3	14.2	10.25	1.57	7	8.68	....
104	11-12	7 44.4	48.6	44.50	1.70	7 44.6	.....	44.60	1.57	7 42.80	43.03	-0.23
105	12-13	7 54.2	58.2	54.20	1.71	7 53.9	58.1	54.00	1.57	7 52.49	52.43	+0.06
106	12	8 23.0	....	23.00	1.70	8 23.2	27.1	23.15	1.57	8 21.30	21.58	-0.28
107	12	9 0.0	4.1	0.05	1.71	8 59.9	63.9	59.90	1.57	8 58.34	58.33	+0.01
108	....	.....	.....	.....	....	9 9.0	12.8	8.90	1.58	9	7.32	....
109	11	9 14.9	19.0	14.95	1.72	9 14.9	19.0	14.95	1.58	9 13.23	13.37	-0.14
110	12	9 32.3	36.3	32.30	1.70	9 32.5	36.7	32.60	1.58	9 30.60	31.02	-0.42
111	12-13	10 9.1	13.1	9.10	1.73	10 8.9	12.8	8.95	1.58	10 7.37	7.37	0.00
112	12	10 15.3	19.0	15.15	1.71	10 15.2	19.2	15.20	1.58	10 13.44	13.62	-0.18
113	10	10 38.8	42.7	38.75	1.70	10 38.9	42.8	38.85	1.58	10 37.05	37.27	-0.22
114	10	.....	.....	.....	....	10 57.3	61.3	57.30	1.58	10	55.72	....
115	9-10	11 4.5	8.6	4.55	1.74	11 4.3	8.3	4.30	1.58	11 2.81	2.72	+0.09
116	11-12	11 22.3	26.6	22.45	1.72	11 22.4	26.4	22.40	1.59	11 20.73	20.81	-0.08
117	10-11	12 25.6	....	25.60	1.73	12 25.2	29.3	25.25	1.59	12 23.87	23.66	+0.21
118	10-11	.....	.....	.....	....	12 26.1	30.0	26.05	1.59	12	24.46	....
119	10-11	12 30.7	34.6	30.65	1.74	12	34.3	30.30	1.59	12 28.91	28.71	+0.20
120	12	13 8.6	12.6	8.60	1.73	13 8.3	12.4	8.35	1.59	13 6.87	6.76	+0.11
121	12-13	13 23.3	27.4	23.35	1.73	13 23.2	27.2	23.20	1.59	13 21.62	21.61	+0.01
122	11-12	14 16.3	20.4	16.35	1.74	14 16.4	20.4	16.40	1.69	14 14.61	14.71	-0.10
123	11-12	14 45.9	49.8	45.85	1.75	14 45.6	49.7	45.65	1.60	14 44.10	44.05	+0.05
124	....	.....	.....	.....	....	14 49.0	53.1	49.05	1.60	14	47.45	....
125	12	15 29.7	33.6	29.65	1.73	15 29.8	33.5	29.65	1.60	15 27.92	28.05	-0.13
126	10-11	16 46.6	50.7	46.65	1.76	16 46.5	50.5	46.50	1.61	16 44.89	44.89	0.00
127	11	17 10.4	14.2	10.30	1.77	17 10.1	14.0	10.05	1.61	17 8.53	8.44	+0.09
128	6-7	18 6.6	10.5	6.55	1.78	18 6.3	10.2	6.25	1.61	18 4.77	4.64	+0.13
129	12	.....	.....	.....	....	18 59.8	63.6	59.70	1.62	18	58.08	....
130	12-13	20 25.2	....	25.20	1.78	20 25.1	29.2	25.15	1.62	20 23.42	23.53	-0.11
131	12	20 59.3	63.4	59.35	1.79	20 59.3	63.1	59.25	1.62	20 57.56	57.63	-0.07
132	12	21 31.8	35.8	31.80	1.77	21	35.8	31.80	1.63	21 30.03	30.17	-0.14
133	12-13	22 51.4	55.7	51.70	1.78	22 52.0	55.7	51.85	1.63	22 49.92	50.22	-0.30
134	11-12	23 58.6	62.6	58.60	1.81	23 58.5	62.6	58.55	1.64	23 56.79	56.91	-0.12
135	12	22 24 55.7	59.3	55.50	-1.79	22 24 55.7	59.6	55.65	-1.64	22 24 53.71	54.01	-0.30

A.R. $\overset{h.}{21} \overset{m.}{18}$ to $\overset{h.}{22} \overset{m.}{26}$ Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 140.	d.	Zone 141.	d.	Zone 140.	Zone 141.		
91	+ 7 4	-25.5	+ 7 3	-26.1	+ 0 46 38.5	36.9	+ 1.6	Declination somewhat doubtful.
92	4 30	25.0	4 31	25.7	0 44 5.0	5.3	- 0.3	
93	3 36	24.9	....	....	0 43 11.1	....	....
94	2 1	24.7	2 3	25.3	0 41 36.3	37.7	- 1.4	
95	....	....	2 50	25.5	0 42	24.5	....
96	6 34	25.5	6 36	26.2	0 46 8.5	9.8	- 1.3	Declination doubtful in zone 141.
97	0 35	24.5	0 37	25.2	0 40 10.5	11.8	- 1.3	
98	9 30	26.0	9 35	26.7	0 49 4.0	8.3	- 4.3	
99	4 3	25.2	4 3	25.8	0 43 37.8	37.2	+ 0.6	
100	....	....	10 8	26.9	0 49	41.1	....
101	3 23	25.7	0 42	57.3	
102	....	....	6 19	26.3	0 45	52.7	....
103	....	....	0 4	25.2	0 39	38.8	....
104	4 20	25.4	4 22	26.0	0 43 54.6	56.0	- 1.4	
105	2 29	25.1	2 30	25.7	0 42 3.9	4.3	- 0.4	
106	6 31	25.8	6 32	26.4	0 46 5.2	5.6	- 0.4	
107	5 1	25.6	5 2	26.2	0 44 35.4	35.8	- 0.4	
108	....	....	7 23	26.6	0 46	56.4	....
109	2 8	25.1	2 9	25.7	0 41 42.9	43.3	- 0.4	
110	8 9	26.1	8 10	26.8	0 47 42.9	43.2	- 0.3	
111	0 39	24.9	0 39	25.5	0 40 14.1	13.5	+ 0.6	
112	8 27	26.3	8 30	26.9	0 48 0.7	3.1	- 2.4	
113	10 29	26.6	10 30	27.2	0 50 2.4	2.8	- 0.4	
114	3 59	25.6	4 0	26.1	0 43 33.4	33.9	- 0.5	
115	0 7	24.9	0 7	25.5	0 39 42.1	41.5	+ 0.6	
116	6 13	26.0	6 15	26.5	0 45 47.0	48.5	- 1.5	
117	4 14	25.7	4 16	26.3	0 43 48.3	49.7	- 1.4	
118	8 30	26.4	8 32	27.0	0 48 3.6	5.0	- 1.4	
119	2 51	25.5	2 53	26.0	0 42 25.5	27.0	- 1.5	
120	4 44	25.9	4 48	26.4	0 44 18.1	21.6	- 3.5	
121	6 31	26.2	6 33	26.7	0 46 4.8	6.3	- 1.5	
122	6 52	26.3	6 55	26.8	0 46 25.7	28.2	- 2.5	
123	3 6	25.7	3 7	26.2	0 42 40.3	40.8	- 0.5	
124	....	....	5 36	26.6	0 45	9.4	....
125	10 25	26.0	10 27	27.5	0 49 59.0	59.5	- 0.5	
126	+ 3 12	25.9	+ 3 15	26.4	0 42 46.1	48.6	- 2.5	No stars above the 14th magnitude in the field.
127	- 0 7	25.4	- 0 5	25.8	0 39 27.6	29.2	- 1.6	
128	+ 0 13	25.5	+ 0 12	25.9	0 39 47.5	46.1	+ 1.4	
129	- 0 33	25.4	- 0 32	25.8	0 39 1.6	2.2	- 0.6	
130	+ 3 35	26.2	+ 3 34	26.6	0 43 8.8	7.4	+ 1.4	
131	1 6	25.8	1 5	26.2	0 40 40.2	38.8	+ 1.4	No stars above the 13th magnitude.
132	8 3	27.1	8 4	27.5	0 47 35.9	36.5	- 0.6	
133	7 23	27.1	7 30	27.4	0 46 55.9	62.6	- 6.7	
134	2 48	26.4	2 47	26.7	0 42 21.6	20.3	+ 1.3	
135	+ 8 50	-27.4	+ 8 51	-27.8	+ 0 48 22.6	23.2	- 0.6	

ZONE OBSERVATIONS.

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 140.					ZONE 141.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 140.	Zone 141.			
136	12	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
137	11	22 25 9.5	13.5	9.50	-1.79	22 25 9.9	13.8	9.85	-1.64	22 25 7.71	8.21	-0.50		
138	10	25 20.2	....	20.20	1.82	.....	....	.....	....	25 18.38	.....	....
139	11-12	25 29.4	33.4	29.40	1.80	25 29.5	33.4	29.45	1.64	25 27.60	27.81	-0.21		
140	12	25 38.9	42.9	38.90	1.82	25 38.8	42.8	38.80	1.64	25 37.08	37.16	-0.08		
141	12	25	50.7	46.70	1.81	25 46.8	50.8	46.80	1.64	25 44.89	45.16	-0.27		
142	12	26 15.8	20.0	15.90	1.81	26 15.9	20.0	15.95	1.65	26 14.09	14.30	-0.21		
143	13	22 26 20.8	....	20.80	-1.82	.....	....	.....	....	26 18.98	.....	....
144	....	.....	....	.....	....	22 26 22.1	26.1	22.10	-1.65	22 26	20.45	....	

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 140.	d.	Zone 141.	d.	Zone 140.	Zone 141.		
136	+16 5	-27.7	+10 8	-28.0	+ 0 49 37.3	40.0	- 2.7	
137	2 8	26.8	.....	.....	0 41 41.7	.....	...
138	- 6 22	27.1	6 23	27.4	0 45 54.9	55.6	- 0.7	
139	1 12	26.2	1 20	26.5	0 40 45.8	53.5	- 7.7	
140	4 39	26.8	4 39	27.1	0 44 12.2	11.9	+ 0.7	
141	5 24	26.9	5 28	27.3	0 44 57.1	60.7	- 3.6	
142	+ 2 21	-26.4	.....	.....	0 41 54.6	.....	...
143	.....	.....	+ 9 13	-27.9	+ 0 48	45.1	...	Moonlight too strong for observation.

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 156.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 142.		Zone 146.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	
1	10-11	22 25 29.6	33.7	29.65	+1.05		22 25 30.6	34.5	30.55	+0.09		22 25 30.70	30.64	+0.06	
2	11-12	25 47.0	51.0	47.00	1.05		25 48.0	52.0	48.00	0.09		25 48.05	48.09	-0.04	
3	12	26 16.3	20.3	16.30	1.05		26 17.3	21.2	17.25	0.09		26 17.35	17.34	+0.01	
4	12	26 22.4	26.2	22.30	1.05		.....	.....	.....	.....		26 23.35	.....	.....
5	12	26 42.5	46.3	42.40	1.05		26 43.3	47.2	43.25	0.09		26 43.45	43.34	+0.11	
6	12	28 48.9	52.9	48.90	1.04		28 50.0	53.9	49.95	0.08		28 49.94	50.03	-0.09	
7	12-13	29 7.0	11.3	7.15	1.04		29 8.2	12.2	8.20	0.08		29 8.19	8.28	-0.09	
8	13	29 21.7	25.7	21.70	1.04		29	26.5	22.50	0.08		29 22.74	22.58	+0.16	
9	11-12	30 37.9	41.8	37.85	1.04		30 38.7	42.9	38.80	0.08		30 38.89	38.88	+0.01	
10	12	30 58.0	62.0	58.00	1.04		30 59.3	63.1	59.20	0.08		30 59.04	59.28	-0.24	
11	12-13	31 34.9	38.8	34.85	1.03		31 35.6	39.5	35.55	0.07		31 35.88	35.62	+0.26	
12	12-13	.....	.....	.....	.....		32 18.0	21.9	17.95	0.07		32	18.02	.....
13	12	32 49.0	53.0	49.00	1.02		32 50.0	54.0	50.00	0.07		32 50.02	50.07	-0.05	
14	11-12	33 8.9	12.8	8.85	1.02		33 10.0	13.9	9.95	0.07		33 9.87	10.02	-0.15	
15	12-13	33 44.0	47.9	43.95	1.02		33 44.9	49.0	44.95	0.07		33 44.97	45.02	-0.05	
16	10	33 55.0	58.8	54.90	1.02		33 55.6	59.8	55.70	0.06		33 55.92	55.76	+0.16	
17	12-13	34 32.6	36.7	32.65	1.01		34 33.8	37.7	33.75	0.06		34 33.66	33.81	-0.15	
18	13-14	35	33.6	34.60	1.01		34 35.6	39.3	35.45	0.06		35 35.61	35.51	+0.10	
19	....	.....	.....	.....	.....		36 16.2	20.1	16.15	0.05		36	16.20	.....
20	13	36 49.5	53.3	49.40	1.00		.....	.....	.....	.....		36 50.40	.....	.....
21	12-13	37 47.5	51.6	47.55	1.00		37 48.7	52.3	48.50	0.05		37 48.55	48.55	0.00	
22	12	38 8.5	12.3	8.40	1.00		38 9.5	13.2	9.35	0.05		38 9.40	9.40	0.00	
23	12	38 18.5	22.4	18.45	0.99		38	23.4	19.40	0.05		38 19.44	19.45	-0.01	
24	12	38 46.7	50.5	46.60	0.99		38 47.7	51.5	47.60	0.04		38 47.59	47.64	-0.05	
25	12	38 56.2	59.7	55.95	0.99		.....	.....	.....	.....		38 56.94	.....	.....
26	12	39 6.0	10.0	6.00	1.00		.....	.....	.....	.....		39 7.00	.....	.....
27	12	39 18.2	22.1	18.15	0.99		.....	.....	.....	.....		39 19.14	.....	.....
28	....	.....	.....	.....	.....		39 53.2	56.9	53.05	0.04		39	53.09	.....
29	12	40 14.4	18.6	14.50	0.99		40 15.5	19.5	15.50	0.04		40 15.49	15.54	-0.05	
30	12-13	40 27.4	.....	27.40	0.99		40 28.3	32.2	28.25	0.04		40 28.39	28.29	+0.10	
31	12	40 59.4	63.3	59.35	0.98		41 0.5	4.3	0.40	0.04		41 0.33	0.44	-0.11	
32	12	41 1.8	6.0	1.90	0.98		41 3.0	6.9	2.95	0.04		41 2.88	2.99	-0.11	
33	11	41 14.7	.....	14.70	0.98		41 15.3	19.1	15.20	0.04		41 15.68	15.24	+0.44	
34	11	41 16.1	.....	16.10	0.98		41 16.9	20.7	16.80	0.04		41 17.08	16.84	+0.24	
35	11	41 19.2	23.1	19.15	0.98		.....	.....	.....	.....		41 20.13	.....	.....
36	11	41	41.6	37.60	0.98		41	42.3	38.30	0.04		41 38.58	38.34	+0.24	
37	....	.....	.....	.....	.....		44 2.6	6.8	2.70	0.03		44	2.73	.....
38	12-13	44 24.3	28.2	24.25	0.96		44 25.3	29.4	25.35	0.03		44 25.21	25.38	-0.17	
39	11-12	44 25.9	30.0	25.95	0.96		44 27.0	30.9	26.95	0.03		44 26.91	26.98	-0.07	
40	11-12	45 36.1	40.0	36.05	0.96		45 37.0	41.0	37.00	0.02		45 37.01	37.02	-0.01	
41	....	.....	.....	.....	.....		45 57.6	61.3	57.45	0.02		45	57.47	.....
42	12	46 33.6	37.6	33.60	0.95		46 34.5	38.7	34.60	0.02		46 34.55	34.62	-0.07	
43	12-13	47 3.3	7.3	3.30	0.95		47 4.6	8.4	4.50	0.02		47 4.25	4.52	-0.27	
44	12	47	34.6	30.60	0.95		47 31.4	35.3	31.35	0.02		47 31.55	31.37	+0.18	
45	12-13	22 48 44.6	48.7	44.65	+0.94		22 48 45.5	49.3	45.40	+0.01		22 48 45.59	45.41	+0.18	

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 156.	d.	Zone 142.	Zone 156.		
1	+ 6 27	-13.1	+ 6 31	-16.9	+ 0 46 13.9	14.1	- 0.2	Very few stars.
2	4 36	12.7	4 37	16.4	0 44 23.3	20.6	+ 2.7	
3	5 30	12.9	5 33	16.7	0 45 17.1	16.3	+ 0.8	
4	9 26	13.6	....	....	0 49 12.4	....	...
5	8 49	13.5	8 52	17.3	0 48 35.5	34.7	+ 0.8	
6	6 53	13.1	6 56	17.1	0 46 39.9	38.9	+ 1.0	
7	1 51	12.2	1 53	16.4	0 41 38.8	36.6	+ 2.2	
8	4 29	12.7	4 30	16.8	0 44 16.3	13.2	+ 3.1	
9	8 55	13.6	8 58	17.4	0 48 41.4	40.6	+ 0.8	
10	9 6	13.6	9 11	17.4	0 48 52.4	53.6	- 1.2	
11	4 20	12.7	4 27	16.8	0 44 7.3	10.2	- 2.9	
12	8 22	13.5	8 26	17.4	0 48 8.5	8.6	- 0.1	
13	2 31	12.4	2 35	16.6	0 42 18.6	18.4	+ 0.2	
14	5 9	12.9	5 10	17.0	0 44 56.1	53.0	+ 3.1	
15	5 46	13.0	5 47	17.1	0 45 33.0	29.9	+ 3.1	
16	10 21	13.9	10 17	17.7	0 49 67.1	59.3	+ 7.8	
17	6 15	13.1	6 19	17.1	0 46 1.9	1.9	0.0	
18	6 12	13.2	6 19	17.1	0 45 58.8	61.9	- 3.1	
19	....	....	8 0	17.4	0 47	42.6	...
20	7 58	13.5	....	....	0 47 44.5	....	...
21	5 3	12.9	5 6	17.1	0 44 50.1	48.9	+ 1.2	Slightly nebulous. Comp. f. 20".
22	8 0	13.5	8 6	17.5	0 47 46.5	48.5	- 2.0	
23	0 9	12.0	0 11	16.5	0 39 57.0	54.5	+ 2.5	
24	4 15	12.8	4 17	17.0	0 44 2.2	0.0	+ 2.2	
25	0 59	12.2	....	....	0 40 46.8	....	...
26	9 1	13.7	....	....	0 48 47.3	....	...
27	4 12	12.8	....	....	0 43 59.2	....	...
28	....	....	9 7	17.7	0 48	49.3	...
29	8 19	13.6	8 22	17.6	0 48 5.4	4.4	+ 1.0	
30	7 59	13.5	8 1	17.6	0 47 45.5	43.4	+ 2.1	
31	9 0	13.7	9 2	17.7	0 48 46.3	44.3	+ 2.0	
32	8 1	13.5	8 6	17.6	0 47 47.5	48.4	- 0.9	
33	10 30	14.0	10 30	17.9	0 50 16.0	12.1	+ 3.9	
34	7 22	13.4	7 20	17.5	0 47 8.6	2.5	+ 6.1	
35	9 13	13.8	....	....	0 48 59.2	....	...
36	10 31	14.0	10 32	17.9	0 50 17.0	14.1	+ 2.9	
37	....	....	6 6	17.5	0 45	48.5	...
38	6 8	13.2	6 8	17.5	0 45 54.8	50.5	+ 4.3	
39	2 32	13.6	2 35	17.0	0 42 18.4	18.0	+ 0.4	
40	5 46	13.2	5 50	17.4	0 45 32.8	32.6	+ 0.2	
41	4 33	17.3	0 44	15.7	...	
42	1 21	12.4	1 24	16.9	0 41 8.6	7.1	+ 1.5	
43	5 2	13.1	5 6	17.4	0 44 48.9	48.6	+ 0.3	
44	8 48	13.6	8 51	17.9	0 48 34.4	33.1	+ 1.3	
45	+ 8 12	-13.7	+ 8 19	-17.9	+ 0 47 58.3	61.1	- 2.8	

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 142.						ZONE 156.						MEAN RIGHT ASCENSION. 1860.0				Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 142.		Zone 156.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.
46	10-11	22	49	31.9	35.9	31.90	+0.93	22	49	33.0	36.9	32.95	+0.01	22	49	32.83	32.96	-0.13
47	12	.....	.....	.....	.....	.....	.....	49	43.2	47.2	43.20	0.01	49	.....	.....	43.21	.....
48	....	.....	.....	.....	.....	.....	.....	50	15.5	19.3	15.40	0.01	50	.....	.....	15.41	.....
49	12	50	....	56.2	52.20	0.93	.....	50	53.1	56.8	52.95	0.01	50	53.13	52.96	+0.17	.....
50	12	50	....	57.0	53.00	0.93	.....	.....	.....	.....	.....	.....	50	53.93	.....	.....	.....
51	12	51	5.2	9.1	5.15	0.92	.....	51	5.9	9.9	5.90	0.01	51	6.07	5.91	+0.16	.....
52	12	51	5.9	9.7	5.80	0.93	.....	51	6.4	10.4	6.40	+0.01	51	6.73	6.41	+0.32	.....
53	12	51	46.3	50.3	46.30	0.92	.....	.....	.....	.....	.....	.....	51	47.22	.....	.....	.....
54	12	52	25.5	29.6	25.55	0.93	.....	52	26.2	30.2	26.20	0.00	52	26.48	26.20	+0.28	.....
55	12-13	52	35.3	39.2	35.25	0.92	.....	52	36.2	40.0	36.10	0.00	52	36.17	36.10	+0.07	.....
56	....	.....	.....	.....	.....	.....	.....	52	....	62.5	58.50	0.00	52	.....	58.50	.....	.....
57	12-13	53	34.9	38.9	34.90	0.91	.....	53	35.8	40.0	35.90	0.00	53	35.81	35.90	-0.09	.....
58	12-13	53	50.0	54.0	50.00	0.91	.....	53	....	54.7	50.70	0.00	53	50.91	50.70	+0.21	.....
59	12-13	54	41.4	45.6	41.50	0.91	.....	54	42.3	46.2	42.25	0.00	54	42.41	42.25	+0.16	.....
60	12-13	55	53.9	....	53.90	0.90	.....	55	54.6	58.6	54.60	-0.01	55	54.80	54.59	+0.21	.....
61	10-11	56	0.9	5.1	1.00	0.91	.....	56	1.8	5.8	1.80	0.01	56	1.91	1.79	+0.12	.....
62	12	56	15.5	19.6	15.55	0.91	.....	56	16.0	20.2	16.10	0.01	56	16.46	16.09	+0.37	.....
63	11	56	37.8	41.7	37.75	0.90	.....	56	38.7	42.9	38.80	0.01	56	38.65	38.79	-0.14	.....
64	....	.....	.....	.....	.....	.....	.....	57	15.3	....	15.30	0.01	57	.....	15.29	.....	.....
65	....	.....	.....	.....	.....	.....	.....	57	19.6	23.4	19.50	0.01	57	.....	19.49	.....	.....
66	12-13	58	13.3	17.4	13.35	0.90	.....	58	14.0	18.0	14.00	0.01	58	14.25	13.99	+0.26	.....
67	10-11	58	27.9	31.9	27.90	0.89	.....	58	28.9	32.8	28.85	0.02	58	28.79	28.83	-0.04	.....
68	11-12	59	15.3	18.9	15.10	0.88	.....	59	16.1	20.1	16.10	0.02	59	15.98	16.08	-0.10	.....
69	11-12	22	59	20.1	24.2	20.15	0.88	22	59	25.0	21.00	0.02	22	59	21.03	20.98	+0.05
70	12-13	23	0	3.1	3.10	0.89	23	0	4.0	7.9	3.95	0.02	23	0	3.99	3.93	+0.06
71	....	.....	.....	.....	.....	.....	.....	0	33.3	37.4	33.35	0.02	0	.....	33.37	.....	.....
72	12-13	0	....	41.1	37.10	0.88	.....	.....	.....	.....	.....	.....	0	37.98	.....	.....	.....
73	12-13	0	46.4	50.3	46.35	0.88	.....	0	47.4	51.3	47.35	0.02	0	47.23	47.33	-0.10	.....
74	11	0	56.3	60.0	56.15	0.89	.....	.....	.....	.....	.....	.....	0	57.04	.....	.....	.....
75	12	1	....	28.7	24.70	0.88	.....	1	25.5	29.5	25.50	0.03	1	25.58	25.47	+0.11	.....
76	12	1	33.9	37.9	33.90	0.88	.....	1	34.6	38.8	34.70	0.03	1	34.78	34.67	+0.11	.....
77	12	1	52.9	56.9	52.90	0.88	.....	1	53.7	57.6	53.65	0.03	1	53.78	53.62	+0.16	.....
78	....	1	58.5	62.1	58.30	0.87	.....	.....	.....	.....	.....	.....	1	59.17	.....	.....	.....
79	12	2	9.7	13.7	9.70	0.87	.....	.....	.....	.....	.....	.....	2	10.57	.....	.....	.....
80	12	2	10.9	14.9	10.90	0.87	.....	2	11.9	15.7	11.80	0.03	2	11.77	11.77	0.00	.....
81	10-11	2	27.8	31.8	27.80	0.88	.....	2	28.8	32.8	28.80	0.03	2	28.68	28.77	-0.09	.....
82	11-12	2	30.0	34.0	30.00	0.87	.....	.....	.....	.....	.....	.....	2	30.87	.....	.....	.....
83	12	2	39.8	43.7	39.75	0.87	.....	2	40.8	44.9	40.85	0.03	2	40.62	40.82	-0.20	.....
84	12	2	49.7	53.7	49.70	0.87	.....	2	50.5	54.5	50.50	0.03	2	50.57	50.47	+0.10	.....
85	12	3	56.9	60.9	56.90	0.86	.....	3	57.8	61.7	57.75	0.04	3	57.76	57.71	+0.05	.....
86	11-12	4	22.5	26.5	22.50	0.86	.....	4	23.5	27.4	23.45	0.04	4	23.36	23.41	-0.05	.....
87	12-13	5	13.8	17.7	13.75	0.86	.....	5	14.5	18.3	14.40	0.04	5	14.61	14.36	+0.25	.....
88	12-13	6	4.0	8.0	4.00	0.85	.....	6	4.8	8.8	4.80	0.04	6	4.85	4.76	+0.09	.....
89	12	6	11.7	....	11.70	0.86	.....	6	12.5	16.5	12.50	0.04	6	12.56	12.46	+0.10	.....
90	12	23	6	20.1	23.9	20.00	+0.85	23	6	20.7	24.7	20.70	-0.05	23	6	20.85	20.65	+0.20

A.R. ^{h.}29 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 156.	d.	Zone 142.	Zone 156.		
46	+ 2 30	-12.7	+ 2 36	....	° ' "	"	"
47	10 2	13.9	10 8	....	.....	....	....
48	....	....	9 11	....	.....	....	....
49	8 10	13.8	8 14	....	.....	....	....
50	8 0	13.7	....	....	.....	....	....
51	0 9	12.2	0 10	....	.....	....	....
52	1 39	12.5	1 43	....	.....	....	....
53	2 59	12.8	....	....	.....	....	....
54	9 18	13.8	9 20	....	.....	....	....
55	+ 4 3	13.0	4 8	....	.....	....	....
56	....	....	+ 0 40	....	.....	....	....	Declination doubtful.
57	- 0 20	12.2	- 0 20	....	.....	....	....
58	+ 4 39	13.1	+ 4 40	....	.....	....	....
59	8 39	13.9	8 46	....	.....	....	....
60	3 0	12.8	3 3	....	.....	....	....
61	5 34	13.3	5 38	....	.....	....	....
62	+ 7 8	13.6	+ 7 12	....	.....	....	....
63	- 0 13	12.3	- 0 11	....	.....	....	....
64	....	....	+ 2 38	....	.....	....	....
65	....	....	1 22	....	.....	....	....
66	+ 7 1	13.6	7 5	....	.....	....	....
67	5 41	13.4	5 46	....	.....	....	....
68	+ 0 11	12.3	+ 0 17	....	.....	....	....
69	- 0 19	12.3	- 0 17	....	.....	....	....
70	+ 8 58	14.0	+ 9 3	....	.....	....	....
71	....	....	4 40	....	.....	....	....
72	3 10	12.9	....	....	.....	....	....
73	2 30	12.8	2 38	....	.....	....	....
74	10 45	14.4	....	....	.....	....	....
75	6 40	13.6	6 46	....	.....	....	....
76	5 55	13.5	5 58	....	.....	....	....
77	7 22	13.7	7 27	....	.....	....	....
78	3 ..	....	....	....	.....	....	....
79	1 58	12.7	....	....	.....	....	....
80	4 0	13.1	4 1	....	.....	....	....
81	7 57	13.9	8 1	....	.....	....	....
82	1 12	12.6	....	....	.....	....	....
83	0 44	12.5	0 47	....	.....	....	....
84	0 11	12.4	0 15	....	.....	....	....
85	1 52	12.8	1 54	....	.....	....	....
86	1 6	12.6	1 9	....	.....	....	....
87	6 19	13.6	6 22	....	.....	....	....
88	4 28	13.2	4 30	....	.....	....	....
89	6 32	13.7	6 38	....	.....	....	....
90	+ 3 52	-13.2	+ 3 52	....	.....	....	....

A.R. $22^{\text{h}} 25^{\text{m}}$ to $23^{\text{h}} 51^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 142.					ZONE 156.					MEAN RIGHT ASCENSION. 1860.0				Difference.		
		First Wire			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 142.	Zone 156.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.		s.	s.
91	12	23	6	29.2	33.2	29.20	+0.85	23	6	....	34.2	30.20	-0.05	23	6	30.05	30.15	-0.10
92	11-12		6	32.3	36.2	32.25	0.85		6	....	37.0	33.00	0.05		6	33.10	32.95	+0.15
93	12		7	15.2	19.2	15.20	0.85		7	16.3	20.1	16.20	0.05		7	16.05	16.15	-0.10
94	....		....	....	....	....	....		7	....	34.0	30.00	0.05		7	....	29.95	....
95	12-13		9	19.0	22.8	18.90	0.83		9	19.9	23.9	19.90	0.06		9	19.73	19.84	-0.11
96	11-12		9	44.1	48.2	44.15	0.84		9	45.1	49.0	45.05	0.06		9	44.99	44.99	0.00
97	12-13		10	4.2	7.9	4.05	0.83		10	5.0	9.0	5.00	0.06		10	4.88	4.94	-0.06
98	12		10	19.9	23.8	19.85	0.83		10	20.7	24.7	20.70	0.06		10	20.68	20.64	+0.04
99	12		10	22.8	26.7	22.75	0.83		10	23.8	27.7	23.75	0.06		10	23.58	23.69	-0.11
100	12		11	0.4	4.3	0.35	0.83		11	1.2	5.2	1.20	0.06		11	1.18	1.14	+0.04
101	12		11	8.0	....	8.00	0.83		11	8.7	12.7	8.70	0.06		11	8.83	8.64	+0.19
102	12-13		11	36.6	40.6	36.60	0.82		11	37.3	41.6	37.45	0.06		11	37.42	37.39	+0.03
103	12-13		12	59.0	62.6	58.80	0.82		....	....	....	....	....		12	59.62	....	....
104	11-13		13	3.7	7.5	3.60	0.82		13	4.4	8.0	4.40	0.07		13	4.42	4.33	+0.09
105	....		....	....	....	....	....		13	15.8	19.4	15.60	0.07		13	....	15.53	....
106	12-14		15	1.0	4.9	0.95	0.81		15	1.8	5.7	1.75	0.08		15	1.76	1.67	+0.09
107	10-12		15	16.1	20.0	16.05	0.81		15	16.7	20.8	16.75	0.08		15	16.86	16.67	+0.19
108	....		....	....	....	....	....		16	57.9	62.0	57.95	0.08		16	....	57.87	....
109	12-14		19	47.9	51.9	47.90	0.79		19	48.7	52.6	48.65	0.09		19	48.69	48.56	+0.13
110	12-13		20	59.7	63.6	59.65	0.78		21	0.3	4.5	0.40	0.09		21	0.43	0.31	+0.12
111	12-13		21	20.0	24.0	20.00	0.78		21	21.0	24.9	20.95	0.09		21	20.78	20.86	-0.08
112	12-13		21	21.9	25.7	21.80	0.78		21	22.6	26.6	22.60	0.09		21	22.58	22.51	+0.07
113	12-14		22	39.4	43.4	39.40	0.77		22	40.2	44.1	40.15	0.10		22	40.17	40.05	+0.12
114	12-13		....	....	....	....	....		22	58.3	62.2	58.25	0.10		22	....	58.15	....
115	11-12		23	21.4	25.3	21.35	0.78		23	22.1	26.1	22.10	0.10		23	22.13	22.00	+0.13
116	11-13		23	31.2	35.2	31.20	0.77		23	32.1	36.0	32.05	0.10		23	31.97	31.95	+0.02
117	12-14		24	39.4	43.2	39.30	0.76		24	40.0	43.9	39.95	0.10		24	40.06	39.85	+0.21
118	11-13		24	55.2	....	55.20	0.77		24	56.0	59.9	55.95	0.10		24	55.97	55.85	+0.12
119	11		25	37.0	....	37.00	0.76		....	....	....	....	....		25	37.76	....	....
120	12		25	....	40.6	36.60	0.76		25	37.6	41.7	37.65	0.11		25	37.36	37.54	-0.18
121	11		27	46.9	51.0	46.95	0.76		27	47.5	51.6	47.55	0.11		27	47.71	47.44	+0.27
122	12-13		27	58.9	62.9	58.90	0.75		27	59.8	63.8	59.80	0.11		27	59.65	59.69	-0.04
123	11-12		29	29.0	33.0	29.00	0.75		29	29.8	33.8	29.80	0.12		29	29.75	29.68	+0.07
124	12-13		29	31.6	35.5	31.55	0.74		29	32.4	36.5	32.45	0.12		29	32.29	32.33	-0.04
125	12		30	42.9	46.9	42.90	0.74		30	43.8	....	43.80	0.12		30	43.64	43.68	-0.04
126	12-13		31	27.8	31.9	27.85	0.74		31	29.0	32.7	28.85	0.13		31	28.59	28.72	-0.13
127	10-12		31	30.2	34.2	30.20	0.74		31	30.9	34.9	30.90	0.13		31	30.94	30.77	+0.17
128	10-12		32	26.8	30.8	26.80	0.73		32	27.6	31.5	27.55	0.13		32	27.53	27.42	+0.11
129	9-11		32	50.1	54.1	50.10	0.73		32	50.8	54.9	50.85	0.13		32	50.83	50.72	+0.11
130	13		33	46.0	49.9	45.95	0.73		33	46.7	50.7	46.70	0.14		33	46.68	46.56	+0.12
131	11-13		34	20.4	....	20.40	0.72		34	21.4	25.4	21.40	0.14		34	21.12	21.26	-0.14
132	12-13		35	29.3	33.4	29.35	0.72		35	30.3	34.3	30.30	0.14		35	30.07	30.16	-0.09
133	12-13		36	39.6	43.4	39.50	0.72		36	40.3	44.3	40.30	0.15		36	40.22	40.15	+0.07
134	12-13		36	45.3	49.3	45.30	0.71		36	....	50.2	46.20	0.15		36	46.01	46.05	-0.04
135	12-13	23	37	44.7	48.6	44.65	+0.70	23	37	45.6	49.6	45.60	-0.15	23	37	45.35	45.45	-0.10

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 156.	d.	Zone 142.	Zone 156.		
91	+ 6 3	-13.6	+ 6 10	.."	0 1 "	.."	.."	
92	5 23	13.4	5 27	....	.....	....	....
93	5 35	13.5	5 38	....	.....	....	....
94	....	....	5 13	....	.....	....	....
95	0 54	12.7	0 54	....	.....	....	....
96	5 21	13.5	5 27	....	.....	....	....
97	1 30	12.8	1 30	....	.....	....	....
98	6 22	13.7	6 26	....	.....	....	....
99	6 1	13.7	6 6	....	.....	....	....
100	7 47	14.0	7 48	....	.....	....	....
101	9 28	14.3	9 30	....	.....	....	....
102	3 0	13.1	3 5	....	.....	....	....
103	3 17	13.1	....	....	.....	....	....
104	8 50	14.2	8 54	....	.....	....	....	Companion 21" n. p. 14th mag.
105	6 3	13.7	6 8	....	.....	....	....	No stars above 12th mag.
106	6 30	13.8	6 37	....	.....	....	....
107	10 38	14.6	10 44	....	.....	....	....	Declination doubtful in zone 156.
108	....	....	7 4	....	.....	....	....	No stars above 15th mag.
109	7 12	14.0	7 15	....	.....	....	....
110	8 12	14.2	8 18	....	.....	....	....
111	8 8	14.2	8 9	....	.....	....	....
112	7 49	14.1	7 51	....	.....	....	....
113	1 2	12.8	1 10	....	.....	....	....
114	....	....	0 16	....	.....	....	....
115	9 55	14.6	10 0	....	.....	....	....
116	6 3	13.8	6 8	....	.....	....	....
117	3 30	13.4	3 39	....	.....	....	....
118	+10 39	14.7	10 37	....	.....	....	....
119	- 0 28	12.6	....	....	.....	....	....
120	+ 2 49	13.3	2 50	....	.....	....	....
121	10 1	14.7	10 7	....	.....	....	....
122	5 29	13.8	5 30	....	.....	....	....
123	7 30	14.2	7 25	....	.....	....	....
124	0 19	12.8	0 18	....	.....	....	....
125	6 23	14.0	6 28	....	.....	....	....
126	9 17	14.6	9 20	....	.....	....	....
127	8 8	14.4	8 14	....	.....	....	....
128	3 51	13.6	4 0	....	.....	....	....
129	6 4	14.0	6 13	....	.....	....	....
130	7 22	14.2	7 21	....	.....	....	....
131	0 6	12.9	0 9	....	.....	....	....	Meteor crossed the field.
132	6 43	14.1	6 46	....	.....	....	....
133	9 29	14.7	9 32	....	.....	....	....
134	1 16	14.1	1 18	....	.....	....	....
135	+ 2 9	-14.3	+ 2 14	....	.....	....	....

A.R. $\overset{h}{21} \overset{m}{18}$ to $\overset{h}{22} \overset{m}{26}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 140.				ZONE 141.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 140.	Zone 141.	
46	11	h. m. s. 21 42 11.3	s. 15.5	s. 11.40	-1.54	h. m. s. 21 42 11.2	s. 15.3	s. 11.25	-1.46	h. m. s. 21 42 9.86	s. 9.79	+0.06
47	10	42 35.5	39.5	35.50	1.54	42 35.8	39.6	35.70	1.46	42 33.96	34.24	-0.28
48	12	42 54.4	58.8	54.65	1.55	42 54.4	58.5	54.45	1.46	42 53.10	52.99	+0.10
49	....	.....	.....	.....	....	43 29.6	....	29.60	1.46	43	28.14	....
50	10-11	43 33.9	38.1	34.00	1.56	43 34.1	38.1	34.10	1.46	43 32.43	32.64	-0.21
51	10	.....	.....	.....	....	43 57.0	60.8	56.90	1.47	43	55.43	....
52	11	44 10.8	14.8	10.80	1.56	44 10.7	14.7	10.70	1.47	44 9.24	9.23	+0.01
53	10-11	44 32.0	36.2	32.10	1.55	44 32.0	36.0	32.00	1.47	44 30.55	30.53	+0.02
54	8-9	45 2.3	6.3	2.30	1.56	45 2.3	6.3	2.30	1.47	45 0.74	0.83	-0.09
55	11-12	45 38.3	42.3	38.30	1.58	45	42.3	38.30	1.47	45 36.72	36.83	-0.11
56	11-12	46 20.0	24.0	20.00	1.57	46 20.0	24.0	20.00	1.48	46 18.43	18.52	-0.09
57	11-12	46 21.8	25.8	21.80	1.57	46 21.8	25.7	21.75	1.48	46 20.23	20.27	-0.04
58	12	47	24.7	20.70	1.56	.....	.....	.....	....	47 19.14	.....	....
59	10-11	47 36.6	40.6	36.60	1.57	47 36.6	40.7	36.65	1.48	47 35.03	35.17	-0.14
60	12-13	48 5.2	9.1	5.15	1.59	48 5.0	9.0	5.00	1.48	48 3.56	3.52	+0.04
61	12-13	49 1.8	5.8	1.80	1.58	49 1.9	5.8	1.85	1.49	49 0.22	0.36	-0.14
62	12	49 18.9	22.9	18.90	1.59	.....	.....	.....	....	49 17.31	.....	....
63	11-12	49 41.1	45.2	41.15	1.58	49 41.4	45.3	41.35	1.49	49 39.57	39.86	-0.29
64	11	50 29.4	33.5	29.45	1.61	50 29.2	33.3	29.25	1.49	50 27.84	27.76	+0.08
65	....	.....	.....	.....	....	51 15.1	19.0	15.05	1.50	51	13.55	....
66	12-13	52 5.0	9.1	5.05	1.61	52 5.2	9.1	5.15	1.50	52 3.44	3.65	-0.21
67	11-12	52 56.0	60.2	56.10	1.61	52 56.0	60.1	56.05	1.50	52 54.49	54.55	-0.06
68	12-13	52 58.8	62.7	58.75	1.61	52 59.0	62.7	58.85	1.50	52 57.14	57.35	-0.21
69	....	.....	.....	.....	....	53 31.7	.....	31.70	1.50	53	30.20	....
70	12-13	53 57.6	.....	57.60	1.62	53 57.7	61.6	57.65	1.51	53 55.98	56.14	-0.16
71	12	54	10.0	6.00	1.60	54 6.5	10.1	6.30	1.51	54 4.40	4.79	-0.39
72	10	55 4.9	8.9	4.90	1.63	55 4.7	8.7	4.70	1.51	55 3.27	3.19	+0.08
73	9-10	55 24.8	28.9	24.85	1.62	55 24.6	.....	24.60	1.51	55 23.23	23.09	+0.14
74	12	55 39.4	43.8	39.60	1.63	55 39.4	43.3	39.35	1.51	55 37.97	37.84	+0.13
75	12	55 42.6	46.4	42.50	1.62	55	46.5	42.50	1.51	55 40.88	40.99	-0.11
76	13	56 14.5	18.6	14.55	1.65	.....	.....	.....	....	56 12.90	.....	....
77	9-10	56 15.7	19.8	15.75	1.65	56 15.6	19.5	15.55	1.52	56 14.10	14.03	+0.07
78	11-13	56 42.0	46.0	42.00	1.63	.....	.....	.....	....	56 40.37	.....	....
79	11-12	57 38.4	42.5	38.45	1.63	57 38.7	42.5	38.60	1.52	57 36.82	37.08	-0.26
80	10	58 6.3	10.3	6.30	1.63	58 6.4	10.3	6.35	1.52	58 4.67	4.83	-0.16
81	9-10	58 15.3	19.3	15.30	1.63	58 15.4	19.3	15.35	1.52	58 13.67	13.83	-0.16
82	9-10	58 28.1	32.0	28.05	1.65	58 27.8	31.9	27.85	1.52	58 26.40	26.33	+0.07
83	9	21 58 51.6	55.4	51.50	1.66	21 58 51.4	55.4	51.40	1.53	21 58 49.84	49.87	-0.03
84	10-11	22 0 2.7	6.7	2.70	1.65	22 0 2.6	6.8	2.70	1.53	22 0 1.05	1.17	-0.12
85	....	0 11.2	15.0	11.10	1.65	0 11.4	15.3	11.35	1.53	0 9.45	9.82	-0.37
86	12	0 22.8	.....	22.80	1.65	0 22.9	26.9	22.90	1.53	0 21.15	21.37	-0.22
87	12	0 36.3	40.2	36.25	1.67	0 36.3	40.1	36.20	1.53	0 34.58	34.67	-0.09
88	11-12	0 37.3	41.4	37.35	1.65	0	41.3	37.30	1.53	0 35.70	35.77	-0.07
89	12	1 18.6	22.7	18.65	1.66	1 18.7	22.7	18.70	1.54	1 16.99	17.16	-0.17
90	12	22 2	24.9	20.90	-1.66	22 2 21.1	25.3	21.20	-1.54	22 2 19.24	19.66	-0.42

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 140.	d.	Zone 141.	d.	Zone 140.	Zone 141.		
46	+ 6 20	-23.9	+ 6 21	-24.8	+ 0 45 56.1	56.2	- 0.1	
47	10 38	24.7	10 39	25.6	0 50 13.3	13.4	- 0.1	
48	5 27	23.8	5 27	24.7	0 45 3.2	2.3	+ 0.9	
49	....	....	1 8	24.0	0 40	44.0	....
50	3 9	23.5	3 9	24.4	0 42 45.5	44.6	+ 0.9	
51	10 ..	....	10 41	25.6	0 50	15.4	....
52	3 30	24.6	3 36	24.5	0 43 5.4	11.5	- 6.1	
53	8 38	24.5	8 40	25.3	0 48 13.5	14.7	- 1.2	
54	5 19	23.9	5 19	24.8	0 44 55.1	54.2	+ 0.9	
55	2 7	23.4	2 6	24.3	0 41 43.6	41.7	+ 1.9	
56	5 1	24.0	5 1	24.8	0 44 37.0	36.2	+ 0.8	
57	7 9	24.4	7 10	25.2	0 46 44.6	44.8	- 0.2	
58	10 32	25.0	....	....	0 50 7.0	....	....
59	8 33	24.7	8 33	25.5	0 48 8.3	7.5	+ 0.8	
60	3 43	23.9	3 42	24.7	0 43 19.1	17.3	+ 1.8	
61	7 29	24.6	....	....	0 47 4.4	....	....	Slightly nebulous.
62	4 13	24.1	....	....	0 43 48.9	....	....
63	+ 8 24	24.8	+ 8 25	25.6	0 47 59.2	59.4	- 0.2	
64	- 0 31	23.3	- 0 32	24.1	0 39 5.7	3.9	+ 1.8	
65	....	....	+ 1 0	24.4	0 40	35.6	....
66	+ 3 38	24.2	3 39	24.9	0 43 13.8	14.1	- 0.3	
67	6 34	24.7	6 35	25.5	0 46 9.3	9.5	- 0.2	
68	7 3	24.8	7 3	25.6	0 46 38.2	37.4	+ 0.8	
69	....	....	7 59	25.8	0 47	33.2	....
70	5 27	24.6	5 22	25.4	0 44 62.4	56.6	+ 5.8	Moon affects the magnitudes.
71	10 11	25.4	10 18	26.2	0 49 45.6	51.8	- 6.2	
72	4 22	24.5	4 22	25.3	0 43 57.5	56.7	+ 0.8	
73	7 16	25.0	7 8	25.7	0 46 51.0	42.3	....
74	4 54	24.6	4 57	25.4	0 44 29.4	31.6	- 2.2	
75	6 38	24.9	6 39	25.7	0 46 13.1	13.3	- 0.2	
76	0 28	23.9	....	....	0 40 4.1	....	....
77	0 59	24.0	1 0	24.8	0 40 35.0	35.2	- 0.2	
78	8 11	25.3	....	....	0 47 45.7	....	....	Declination doubtful.
79	8 49	25.4	....	....	0 48 23.6	....	....	Very few stars.
80	9 21	25.6	9 23	26.3	0 48 55.4	56.7	- 1.3	
81	10 14	25.7	10 5	26.4	0 49 48.3	38.6	+ 9.7	
82	4 59	24.8	4 59	25.6	0 44 34.2	33.4	+ 0.8	
83	2 8	24.4	2 8	25.1	0 41 43.6	42.9	+ 0.7	Lamp troublesome, zone 140.
84	5 23	25.0	5 23	25.7	0 44 58.0	57.3	+ 0.7	
85	....	....	9 5	26.3	0 48	38.7	....
86	7 7	25.3	7 8	26.0	0 46 41.7	42.0	- 0.3	
87	2 4	24.5	2 4	25.2	0 41 39.5	38.8	+ 0.7	
88	7 24	25.4	7 25	25.1	0 46 58.6	59.9	- 1.3	
89	6 42	25.3	6 44	26.0	0 46 16.7	18.0	- 1.3	
90	+ 9 0	-25.8	+ 9 2	-26.5	+ 0 48 34.2	35.5	- 1.3	

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 140.					ZONE 141.					MEAN RIGHT ASCENSION. 1859.0					Difference.			
		First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	Zone 140.				Zone 141.		
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.		s.	s.	
91	12	22	2	22.5	26.2	22.35	-1.66	22	2	21.9	26.0	21.95	-1.54	22	2	20.69	20.41	+0.28		
92	12		2	....	36.6	32.60	1.67		2	32.3	36.4	32.35	1.54		2	30.93	30.81	+0.12	
93	12		2	45.8	50.2	46.00	1.68		....	....	....	....	....		2	44.32	....	....
94	10-12		3	1.7	5.4	1.55	1.68		3	1.6	5.5	1.55	1.55		2	59.87	60.00	-0.13		
95	....		3	10.6	14.4	10.50	1.68		3	....	14.5	10.50	1.55		3	8.82	8.95	-0.13
96	12		4	6.2	9.9	6.05	1.68		4	6.2	10.2	6.20	1.55		4	4.37	4.65	-0.28		
97	11-12		4	7.5	11.7	7.60	1.69		4	7.3	11.4	7.35	1.55		4	5.91	5.80	+0.11		
98	10-12		4	21.7	25.8	21.75	1.67		4	21.8	26.0	21.90	1.55		4	20.08	20.35	-0.27		
99	11-12		5	26.6	30.6	26.60	1.69		5	26.3	30.3	26.30	1.56		5	24.91	24.74	+0.17		
100	....		....	....	....	....	....		5	51.6	55.8	51.70	1.56		5	....	50.14	....	
101	....		....	....	....	....	....		6	1.9	5.8	1.85	1.56		6	....	0.29	....	
102	....		....	....	....	....	....		6	59.0	62.9	58.95	1.56		6	....	57.39	....	
103	....		....	....	....	....	....		7	10.3	14.2	10.25	1.57		7	....	8.68	....	
104	11-12		7	44.4	48.6	44.50	1.70		7	44.6	....	44.60	1.57		7	42.80	43.03	-0.23	
105	12-13		7	54.2	58.2	54.20	1.71		7	53.9	58.1	54.00	1.57		7	52.49	52.43	+0.06		
106	12		8	23.0	....	23.00	1.70		8	23.2	27.1	23.15	1.57		8	21.30	21.58	-0.28	
107	12		9	0.0	4.1	0.05	1.71		8	59.9	63.9	59.90	1.57		8	58.34	58.33	+0.01		
108	....		....	....	....	....	....		9	9.0	12.8	8.90	1.58		9	....	7.32	....	
109	11		9	14.9	19.0	14.95	1.72		9	14.9	19.0	14.95	1.58		9	13.23	13.37	-0.14		
110	12		9	32.3	36.3	32.30	1.70		9	32.5	36.7	32.60	1.58		9	30.60	31.02	-0.42		
111	12-13		10	9.1	13.1	9.10	1.73		10	8.9	12.8	8.95	1.58		10	7.37	7.37	0.00		
112	12		10	15.3	19.0	15.15	1.71		10	15.2	19.2	15.20	1.58		10	13.44	13.62	-0.18		
113	10		10	38.8	42.7	38.75	1.70		10	38.9	42.8	38.85	1.58		10	37.05	37.27	-0.22		
114	10		....	....	....	....	....		10	57.3	61.3	57.30	1.58		10	....	55.72	....	
115	9-10		11	4.5	8.6	4.55	1.74		11	4.3	8.3	4.30	1.58		11	2.81	2.72	+0.09		
116	11-12		11	22.3	26.6	22.45	1.72		11	22.4	26.4	22.40	1.59		11	20.73	20.81	-0.08		
117	10-11		12	25.6	....	25.60	1.73		12	25.2	29.3	25.25	1.59		12	23.87	23.66	+0.21	
118	10-11		....	....	....	....	....		12	26.1	30.0	26.05	1.59		12	....	24.46	....	
119	10-11		12	30.7	34.6	30.65	1.74		12	....	34.3	30.30	1.59		12	28.91	28.71	+0.20	
120	12		13	8.6	12.6	8.60	1.73		13	8.3	12.4	8.35	1.59		13	6.87	6.76	+0.11		
121	12-13		13	23.3	27.4	23.35	1.73		13	23.2	27.2	23.20	1.59		13	21.62	21.61	+0.01		
122	11-12		14	16.3	20.4	16.35	1.74		14	16.4	20.4	16.40	1.69		14	14.61	14.71	-0.10		
123	11-12		14	45.9	49.8	45.85	1.75		14	45.6	49.7	45.65	1.60		14	44.10	44.05	+0.05		
124	....		....	....	....	....	....		14	49.0	53.1	49.05	1.60		14	....	47.45	....	
125	12		15	29.7	33.6	29.65	1.73		15	29.8	33.5	29.65	1.60		15	27.92	28.05	-0.13		
126	10-11		16	46.6	50.7	46.65	1.76		16	46.5	50.5	46.50	1.61		16	44.89	44.89	0.00		
127	11		17	10.4	14.2	10.30	1.77		17	10.1	14.0	10.05	1.61		17	8.53	8.44	+0.09		
128	6-7		18	6.6	10.5	6.55	1.78		18	6.3	10.2	6.25	1.61		18	4.77	4.64	+0.13		
129	12		....	....	....	....	....		18	59.8	63.6	59.70	1.62		18	....	58.08	....	
130	12-13		20	25.2	....	25.20	1.78		20	25.1	29.2	25.15	1.62		20	23.42	23.53	-0.11	
131	12		20	59.3	63.4	59.35	1.79		20	59.3	63.1	59.25	1.62		20	57.56	57.63	-0.07		
132	12		21	31.8	35.8	31.80	1.77		21	....	35.8	31.80	1.63		21	30.03	30.17	-0.14	
133	12-13		22	51.4	55.7	51.70	1.78		22	52.0	55.7	51.85	1.63		22	49.92	50.22	-0.30		
134	11-12		23	58.6	62.6	58.60	1.81		23	58.5	62.6	58.55	1.64		23	56.79	56.91	-0.12		
135	12	22	24	55.7	59.3	55.50	-1.79		22	24	55.7	59.6	55.65	-1.64		22	24	53.71	54.01	-0.30

A.R. $21^h 18^m$ to $22^h 26^m$ Dec. $+8^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 140.	d.	Zone 141.	d.	Zone 140.	Zone 141.		
91	+ 7 4	-25.5	+ 7 3	-26.1	+ 0 46 38.5	36.9	+ 1.6	Declination somewhat doubtful.
92	4 30	25.0	4 31	25.7	0 44 5.0	5.3	- 0.3	
93	3 36	24.9	....	....	0 43 11.1	....	....
94	2 1	24.7	2 3	25.3	0 41 36.3	37.7	- 1.4	
95	....	....	2 50	25.5	0 42	24.5	....
96	6 34	25.5	6 36	26.2	0 46 8.5	9.8	- 1.3	Declination doubtful in zone 141.
97	0 35	24.5	0 37	25.2	0 40 10.5	11.8	- 1.3	
98	9 30	26.0	9 35	26.7	0 49 4.0	8.3	- 4.3	
99	4 3	25.2	4 3	25.8	0 43 37.8	37.2	+ 0.6	
100	....	....	10 8	26.9	0 49	41.1	....
101	3 23	25.7	0 42	57.3	
102	....	....	6 19	26.3	0 45	52.7	....
103	....	....	0 4	25.2	0 39	38.8	....
104	4 20	25.4	4 22	26.0	0 43 54.6	56.0	- 1.4	
105	2 29	25.1	2 30	25.7	0 42 3.9	4.3	- 0.4	
106	6 31	25.8	6 32	26.4	0 46 5.2	5.6	- 0.4	
107	5 1	25.6	5 2	26.2	0 44 35.4	35.8	- 0.4	
108	....	....	7 23	26.6	0 46	56.4	....
109	2 8	25.1	2 9	25.7	0 41 42.9	43.3	- 0.4	
110	8 9	26.1	8 10	26.8	0 47 42.9	43.2	- 0.3	
111	0 39	24.9	0 39	25.5	0 40 14.1	13.5	+ 0.6	
112	8 27	26.3	8 30	26.9	0 48 0.7	3.1	- 2.4	
113	10 29	26.6	10 30	27.2	0 50 2.4	2.8	- 0.4	
114	3 59	25.6	4 0	26.1	0 43 33.4	33.9	- 0.5	
115	0 7	24.9	0 7	25.5	0 39 42.1	41.5	+ 0.6	
116	6 13	26.0	6 15	26.5	0 45 47.0	48.5	- 1.5	
117	4 14	25.7	4 16	26.3	0 43 48.3	49.7	- 1.4	
118	8 30	26.4	8 32	27.0	0 48 3.6	5.0	- 1.4	
119	2 51	25.5	2 53	26.0	0 42 25.5	27.0	- 1.5	
120	4 44	25.9	4 48	26.4	0 44 18.1	21.6	- 3.5	
121	6 31	26.2	6 33	26.7	0 46 4.8	6.3	- 1.5	
122	6 52	26.3	6 55	26.8	0 46 25.7	28.2	- 2.5	
123	3 6	25.7	3 7	26.2	0 42 40.3	40.8	- 0.5	
124	....	....	5 36	26.6	0 45	9.4	....
125	10 25	26.0	10 27	27.5	0 49 59.0	59.5	- 0.5	
126	+ 3 12	25.9	+ 3 15	26.4	0 42 46.1	48.6	- 2.5	No stars above the 14th magnitude in the field.
127	- 0 7	25.4	- 0 5	25.8	0 39 27.6	29.2	- 1.6	
128	+ 0 13	25.5	+ 0 12	25.9	0 39 47.5	46.1	+ 1.4	
129	- 0 33	25.4	- 0 32	25.8	0 39 1.6	2.2	- 0.6	
130	+ 3 35	26.2	+ 3 34	26.6	0 43 8.8	7.4	+ 1.4	
131	1 6	25.8	1 5	26.2	0 40 40.2	38.8	+ 1.4	No stars above the 13th magnitude.
132	8 3	27.1	8 4	27.5	0 47 35.9	36.5	- 0.6	
133	7 23	27.1	7 30	27.4	0 46 55.9	62.6	- 6.7	
134	2 48	26.4	2 47	26.7	0 42 21.6	20.3	+ 1.3	
135	+ 8 50	-27.4	+ 8 51	-27.8	+ 0 48 22.6	23.2	- 0.6	

A.R. ^{h.} 21 ^{m.} 18 to ^{h.} 22 ^{m.} 26.

Dec. +0° 40' to 0° 50'.

Number of the Star.	Magnitude.	ZONE 140.					ZONE 141.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 140.		Zone 141.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	
91	12	22	2 22.5	26.2	22.35	-1.66	22	2 21.9	26.0	21.95	-1.54	22	2 20.69	20.41	+0.28
92	12		2	36.6	32.60	1.67		2 32.3	36.4	32.35	1.54		2 30.93	30.81	+0.12
93	12		2 45.8	50.2	46.00	1.68		.....	.....	.....	.....		2 44.32	.....	.....
94	10-12		3 1.7	5.4	1.55	1.68		3 1.6	5.5	1.55	1.55		2 59.87	60.00	-0.13
95	....		3 10.6	14.4	10.50	1.68		3	14.5	10.50	1.55		3 8.82	8.95	-0.13
96	12		4 6.2	9.9	6.05	1.68		4 6.2	10.2	6.20	1.55		4 4.37	4.65	-0.28
97	11-12		4 7.5	11.7	7.60	1.69		4 7.3	11.4	7.35	1.55		4 5.91	5.80	+0.11
98	10-12		4 21.7	25.8	21.75	1.67		4 21.8	26.0	21.90	1.55		4 20.08	20.35	-0.27
99	11-12		5 26.6	30.6	26.60	1.69		5 26.3	30.3	26.30	1.56		5 24.91	24.74	+0.17
100	....		.....	.....	.....	.....		5 51.6	55.8	51.70	1.56		5	50.14	.....
101	....		.....	.....	.....	.....		6 1.9	5.8	1.85	1.56		6	0.29	.....
102	....		.....	.....	.....	.....		6 59.0	62.9	58.95	1.56		6	57.39	.....
103	....		.....	.....	.....	.....		7 10.3	14.2	10.25	1.57		7	8.68	.....
104	11-12		7 44.4	48.6	44.50	1.70		7 44.6	....	44.60	1.57		7 42.80	43.03	-0.23
105	12-13		7 54.2	58.2	54.20	1.71		7 53.9	58.1	51.00	1.57		7 52.49	52.43	+0.06
106	12		8 23.0	....	23.00	1.70		8 23.2	27.1	23.15	1.57		8 21.30	21.58	-0.28
107	12		9 0.0	4.1	0.05	1.71		8 59.9	63.9	59.90	1.57		8 58.34	58.33	+0.01
108	....		.....	.....	.....	.....		9 9.0	12.8	8.90	1.58		9	7.32	.....
109	11		9 14.9	19.0	14.95	1.72		9 14.9	19.0	14.95	1.58		9 13.23	13.37	-0.14
110	12		9 32.3	36.3	32.30	1.70		9 32.5	36.7	32.60	1.58		9 30.60	31.02	-0.42
111	12-13		10 9.1	13.1	9.10	1.73		10 8.9	12.8	8.95	1.58		10 7.37	7.37	0.00
112	12		10 15.3	19.0	15.15	1.71		10 15.2	19.2	15.20	1.58		10 13.44	13.62	-0.18
113	10		10 38.8	42.7	38.75	1.70		10 38.9	42.8	38.85	1.58		10 37.05	37.27	-0.22
114	10		.....	.....	.....	.....		10 57.3	61.3	57.30	1.58		10	55.72	.....
115	9-10		11 4.5	8.6	4.55	1.74		11 4.3	8.3	4.30	1.58		11 2.81	2.72	+0.09
116	11-12		11 22.3	26.6	22.45	1.72		11 22.4	26.4	22.40	1.59		11 20.73	20.81	-0.08
117	10-11		12 25.6	....	25.60	1.73		12 25.2	29.3	25.25	1.59		12 23.87	23.66	+0.21
118	10-11		.....	.....	.....	.....		12 26.1	30.0	26.05	1.59		12	24.46	.....
119	10-11		12 30.7	34.6	30.65	1.74		12	34.3	30.30	1.59		12 28.91	28.71	+0.20
120	12		13 8.6	12.6	8.60	1.73		13 8.3	12.4	8.35	1.59		13 6.87	6.76	+0.11
121	12-13		13 23.3	27.4	23.35	1.73		13 23.2	27.2	23.20	1.59		13 21.62	21.61	+0.01
122	11-12		14 16.3	20.4	16.35	1.74		14 16.4	20.4	16.40	1.69		14 14.61	14.71	-0.10
123	11-12		14 45.9	49.8	45.85	1.75		14 45.6	49.7	45.65	1.60		14 44.10	44.05	+0.05
124	....		.....	.....	.....	.....		14 49.0	53.1	49.05	1.60		14	47.45	.....
125	12		15 29.7	33.6	29.65	1.73		15 29.8	33.5	29.6	1.60		15 27.92	28.05	-0.13
126	10-11		16 46.6	50.7	46.65	1.76		16 46.5					16 44.89	44.89	0.00
127	11		17 10.4	14.2	10.30	1.77		17 10.1					7 8.53	8.44	+0.09
128	6-7		18 6.6	10.5	6.55	1.78		18 6.3					4.77	4.64	+0.13
129	12		.....	.....	.....	.....		18 59.8					58.08	.....	.....
130	12-13		20 25.2	....	25.20	1.78		20 25.1					23.53	-0.12	.....
131	12		20 59.3	63.4	59.35	1.79							63	-0.0	.....
132	12		21 31.8	35.8	31.80	1.77							17	-0.1	.....
133	12-13		22 51.4	55.7	51.70	1.78							22	-0.2	.....
134	11-12		23 58.6	62.6	58.60	1.81							1	-0.0	.....
135	12	22	24 55.7	59.3	55.50	-1.79	22							-0.5	.....

ZONE OBSERVATIONS.

A.R. ^{h.}21 ^{m.}18 to ^{h.}22 ^{m.}26.Dec. +⁰40 to ⁰50.

Number of the Star.	Magnitude.	ZONE 140.						ZONE 141.						MEAN RIGHT ASCENSION. 1859.0						Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.		z.	First Wire.		Second Wire.	Mean red. to 1st Wire.		z.	Zone 140.		Zone 141.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.		
136	12	22	25	9.5	13.5	9.50	-1.79	22	25	9.9	13.8	9.85	-1.64	22	25	7.71	8.21	-0.50		
137	11		25	20.2	....	20.20	1.82		.....	....	.....	....			25	18.38	.....	....
138	10		25	29.4	33.4	29.40	1.80		25	29.5	33.4	29.45	1.64		25	27.60	27.81	-0.21		
139	11-12		25	38.9	42.9	38.90	1.82		25	38.8	42.8	38.80	1.64		25	37.08	37.16	-0.08		
140	12		25	....	50.7	46.70	1.81		25	46.8	50.8	46.80	1.64		25	44.89	45.16	-0.27	
141	12		26	15.8	20.0	15.90	1.81		26	15.9	20.0	15.95	1.65		26	14.09	14.30	-0.21		
142	13	22	26	20.8	....	20.80	-1.82		.....	....	.....	....			26	18.98	.....	....
143	....		.....	.....	.....	.....	....	22	26	22.1	26.1	22.10	-1.65	22	26	.....	20.45	....	

A.R. ^{h.} 21 ^{m.} 18 to ^{h.} 22 ^{m.} 26.

Dec. +0 40 to 0 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 140.	d.	Zone 141.	d.	Zone 140.	Zone 141.		
136	+10 5	-27.7	+10 8	-28.0	+ 0 49 37.3	40.0	- 2.7	Moonlight too strong for observation.
137	2 8	26.3	.....	.....	0 41 41.7	.....	...
138	6 22	27.1	6 23	27.4	0 45 54.9	55.6	- 0.7	
139	1 12	26.2	1 20	26.5	0 40 45.8	53.5	- 7.7	
140	4 39	26.8	4 39	27.1	0 44 12.2	11.9	+ 0.7	
141	5 24	26.9	5 28	27.3	0 44 57.1	60.7	- 3.6	
142	+ 2 21	-26.4	.....	.....	0 41 54.6	.....	...
143	.....	.....	+ 9 13	-27.9	+ 0 48	45.1	...

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 142.						ZONE 156.						MEAN RIGHT ASCENSION. 1860.0						Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	Zone 142.			Zone 156.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.		
1	10-11	22	25	29.6	33.7	29.65	+1.05	22	25	30.6	34.5	30.55	+0.09	22	25	30.70	30.64	+0.06		
2	11-12	25	47.0	51.0	47.00	1.05		25	48.0	52.0	48.00	0.09		25	48.05	48.09	-0.04			
3	12	26	16.3	20.3	16.30	1.05		26	17.3	21.2	17.25	0.09		26	17.35	17.34	+0.01			
4	12	26	22.4	26.2	22.30	1.05		.....	.....	.....	.....	.....		26	23.35	.....	.....	
5	12	26	42.5	46.3	42.40	1.05		26	43.3	47.2	43.25	0.09		26	43.45	43.34	+0.11			
6	12	28	48.9	52.9	48.90	1.04		28	50.0	53.9	49.95	0.08		28	49.94	50.03	-0.09			
7	12-13	29	7.0	11.3	7.15	1.04		29	8.2	12.2	8.20	0.08		29	8.19	8.28	-0.09			
8	13	29	21.7	25.7	21.70	1.04		29	.....	26.5	22.50	0.08		29	22.74	22.58	+0.16		
9	11-12	30	37.9	41.8	37.85	1.04		30	38.7	42.9	38.80	0.08		30	38.89	38.88	+0.01			
10	12	30	58.0	62.0	58.00	1.04		30	59.3	63.1	59.20	0.08		30	59.04	59.28	-0.24			
11	12-13	31	34.9	38.8	34.85	1.03		31	35.6	39.5	35.55	0.07		31	35.88	35.62	+0.26			
12	12-13	.....	.....	.....	.....	.....		32	18.0	21.9	17.95	0.07		32	.....	18.02	.....		
13	12	32	49.0	53.0	49.00	1.02		32	50.0	54.0	50.00	0.07		32	50.02	50.07	-0.05			
14	11-12	33	8.9	12.8	8.85	1.02		33	10.0	13.9	9.95	0.07		33	9.87	10.02	-0.15			
15	12-13	33	44.0	47.9	43.95	1.02		33	44.9	49.0	44.95	0.07		33	44.97	45.02	-0.05			
16	10	33	55.0	58.8	54.90	1.02		33	55.6	59.8	55.70	0.06		33	55.92	55.76	+0.16			
17	12-13	34	32.6	36.7	32.65	1.01		34	33.8	37.7	33.75	0.06		34	33.66	33.81	-0.15			
18	13-14	35	.....	33.6	34.60	1.01		34	35.6	39.3	35.45	0.06		35	35.61	35.51	+0.10		
19	.....	.....	.....	.....	.....	.....		36	16.2	20.1	16.15	0.05		36	.....	16.20	.....		
20	13	36	49.5	53.3	49.40	1.00		.....	.....	.....	.....	.....		36	50.40	.....	.....	
21	12-13	37	47.5	51.6	47.55	1.00		37	48.7	52.3	48.50	0.05		37	48.55	48.55	0.00			
22	12	38	8.5	12.3	8.40	1.00		38	9.5	13.2	9.35	0.05		38	9.40	9.40	0.00			
23	12	38	18.5	22.4	18.45	0.99		38	.....	23.4	19.40	0.05		38	19.44	19.45	-0.01		
24	12	38	46.7	50.5	46.60	0.99		38	47.7	51.5	47.60	0.04		38	47.59	47.64	-0.05			
25	12	38	56.2	59.7	55.95	0.99		.....	.....	.....	.....	.....		38	56.94	.....	.....	
26	12	39	6.0	10.0	6.00	1.00		.....	.....	.....	.....	.....		39	7.00	.....	.....	
27	12	39	18.2	22.1	18.15	0.99		.....	.....	.....	.....	.....		39	19.14	.....	.....	
28	.....	.....	.....	.....	.....	.....		39	53.2	56.9	53.05	0.04		39	.....	53.09	.....		
29	12	40	14.4	18.6	14.50	0.99		40	15.5	19.5	15.50	0.04		40	15.49	15.54	-0.05			
30	12-13	40	27.4	.....	27.40	0.99		40	28.3	32.2	28.25	0.04		40	28.39	28.29	+0.10		
31	12	40	59.4	63.3	59.35	0.98		41	0.5	4.3	0.40	0.04		41	0.33	0.44	-0.11			
32	12	41	1.8	6.0	1.90	0.98		41	3.0	6.9	2.95	0.04		41	2.88	2.99	-0.11			
33	11	41	14.7	.....	14.70	0.98		41	15.3	19.1	15.20	0.04		41	15.68	15.24	+0.44		
34	11	41	16.1	.....	16.10	0.98		41	16.9	20.7	16.80	0.04		41	17.08	16.84	+0.24		
35	11	41	19.2	23.1	19.15	0.98		.....	.....	.....	.....	.....		41	20.13	.....	.....	
36	11	41	.....	41.6	37.60	0.98		41	.....	42.3	38.30	0.04		41	38.58	38.34	+0.24	
37	.....	.....	.....	.....	.....	.....		44	2.6	6.8	2.70	0.03		44	.....	2.73	.....		
38	12-13	44	24.3	28.2	24.25	0.96		44	25.3	29.4	25.35	0.03		44	25.21	25.38	-0.17			
39	11-12	44	25.9	30.0	25.95	0.96		44	27.0	30.9	26.95	0.03		44	26.91	26.98	-0.07			
40	11-12	45	36.1	40.0	36.05	0.96		45	37.0	41.0	37.00	0.02		45	37.01	37.02	-0.01			
41	.....	.....	.....	.....	.....	.....		45	57.6	61.3	57.45	0.02		45	.....	57.47	.....		
42	12	46	33.6	37.6	33.60	0.95		46	34.5	38.7	34.60	0.02		46	34.55	34.62	-0.07			
43	12-13	47	3.3	7.3	3.30	0.95		47	4.6	8.4	4.50	0.02		47	4.25	4.52	-0.27			
44	12	47	.....	34.6	30.60	0.95		47	31.4	35.3	31.35	0.02		47	31.55	31.37	+0.18		
45	12-13	22	48	44.6	48.7	44.65	+0.94	22	48	45.5	49.3	45.40	+0.01	22	48	45.59	45.41	+0.18		

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. +^o40' to ^o50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 156.	d.	Zone 142.	Zone 156.		
1	+ 6 27	-13.1	+ 6 31	-16.9	+ 0 46 13.9	14.1	- 0.2	Very few stars.
2	4 36	12.7	4 37	16.4	0 44 23.3	20.6	+ 2.7	
3	5 30	12.9	5 33	16.7	0 45 17.1	16.3	+ 0.8	
4	9 26	13.6	....	....	0 49 12.4	....	...
5	8 49	13.5	8 52	17.3	0 48 35.5	34.7	+ 0.8	
6	6 53	13.1	6 56	17.1	0 46 39.9	38.9	+ 1.0	
7	1 51	12.2	1 53	16.4	0 41 38.8	36.6	+ 2.2	
8	4 29	12.7	4 30	16.8	0 44 16.3	13.2	+ 3.1	
9	8 55	13.6	8 58	17.4	0 48 41.4	40.6	+ 0.8	
10	9 6	13.6	9 11	17.4	0 48 52.4	53.6	- 1.2	
11	4 20	12.7	4 27	16.8	0 44 7.3	10.2	- 2.9	
12	8 22	13.5	8 26	17.4	0 48 8.5	8.6	- 0.1	
13	2 31	12.4	2 35	16.6	0 42 18.6	18.4	+ 0.2	
14	5 9	12.9	5 10	17.0	0 44 56.1	53.0	+ 3.1	
15	5 46	13.0	5 47	17.1	0 45 33.0	29.9	+ 3.1	
16	10 21	13.9	10 17	17.7	0 49 67.1	59.3	+ 7.8	Slightly nebulous. Comp. f. 20".
17	6 15	13.1	6 19	17.1	0 46 1.9	1.9	0.0	
18	6 12	13.2	6 19	17.1	0 45 58.8	61.9	- 3.1	
19	....	....	8 0	17.4	0 47	42.6	...
20	7 58	13.5	....	....	0 47 44.5	....	...
21	5 3	12.9	5 6	17.1	0 44 50.1	48.9	+ 1.2	
22	8 0	13.5	8 6	17.5	0 47 46.5	48.5	- 2.0	
23	0 9	12.0	0 11	16.5	0 39 57.0	54.5	+ 2.5	
24	4 15	12.8	4 17	17.0	0 44 2.2	0.0	+ 2.2	
25	0 59	12.2	....	....	0 40 46.8	....	...
26	9 1	13.7	....	....	0 48 47.3	....	...
27	4 12	12.8	....	....	0 43 59.2	....	...
28	....	....	9 7	17.7	0 48	49.3	...
29	8 19	13.6	8 22	17.6	0 48 5.4	4.4	+ 1.0	
30	7 59	13.5	8 1	17.6	0 47 45.5	43.4	+ 2.1	
31	9 0	13.7	9 2	17.7	0 48 46.3	44.3	+ 2.0	Slightly nebulous. Comp. f. 20".
32	8 1	13.5	8 6	17.6	0 47 47.5	48.4	- 0.9	
33	10 30	14.0	10 30	17.9	0 50 16.0	12.1	+ 3.9	
34	7 22	13.4	7 20	17.5	0 47 8.6	2.5	+ 6.1	
35	9 13	13.8	....	....	0 48 59.2	....	...
36	10 31	14.0	10 32	17.9	0 50 17.0	14.1	+ 2.9	
37	....	....	6 6	17.5	0 45	48.5	...
38	6 8	13.2	6 8	17.5	0 45 54.8	50.5	+ 4.3	
39	2 32	13.6	2 35	17.0	0 42 18.4	18.0	+ 0.4	
40	5 46	13.2	5 50	17.4	0 45 32.8	32.6	+ 0.2	
41	....	....	4 33	17.3	0 44	15.7	...
42	1 21	12.4	1 24	16.9	0 41 8.6	7.1	+ 1.5	
43	5 2	13.1	5 6	17.4	0 44 48.9	48.6	+ 0.3	
44	8 48	13.6	8 51	17.9	0 48 34.4	33.1	+ 1.3	
45	+ 8 12	-13.7	+ 8 19	-17.9	+ 0 47 58.3	61.1	- 2.8	

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 142.						ZONE 156.						MEAN RIGHT ASCENSION. 1860.0				Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	z.	First Wire.			Second Wire.	Mean red. to 1st Wire.	z.	Zone 142.		Zone 156.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.		s.
46	10-11	22	49	31.9	35.9	31.90	+0.93	22	49	33.0	36.9	32.95	+0.01	22	49	32.83	32.96	-0.13	
47	12	.....	.....	.....	.....	.....	.....	49	43.2	47.2	43.20	0.01	49	.....	.....	43.21	.....	.....
48	.....	.....	.....	.....	.....	.....	.....	50	15.5	19.3	15.40	0.01	50	.....	.....	15.41	.....	.....
49	12	50	.....	.....	56.2	52.20	0.93	50	53.1	56.8	52.95	0.01	50	53.13	.....	52.96	+0.17	.....
50	12	50	.....	.....	57.0	53.00	0.93	.....	.....	.....	.....	.....	50	53.93	.....	.....	.....	.....
51	12	51	5.2	.....	9.1	5.15	0.92	51	5.9	9.9	5.90	0.01	51	6.07	.....	5.91	+0.16	.....
52	12	51	5.9	.....	9.7	5.80	0.93	51	6.4	10.4	6.40	+0.01	51	6.73	.....	6.41	+0.32	.....
53	12	51	46.3	.....	50.3	46.30	0.92	.....	.....	.....	.....	.....	51	47.22	.....	.....	.....	.....
54	12	52	25.5	.....	29.6	25.55	0.93	52	26.2	30.2	26.20	0.00	52	26.48	.....	26.20	+0.28	.....
55	12-13	52	35.3	.....	39.2	35.25	0.92	52	36.2	40.0	36.10	0.00	52	36.17	.....	36.10	+0.07	.....
56	.....	.....	.....	.....	.....	.....	.....	52	.....	62.5	58.50	0.00	52	.....	.....	58.50	.....	.....
57	12-13	53	34.9	.....	38.9	34.90	0.91	53	35.8	40.0	35.90	0.00	53	35.81	.....	35.90	-0.09	.....
58	12-13	53	50.0	.....	54.0	50.00	0.91	53	.....	54.7	50.70	0.00	53	50.91	.....	50.70	+0.21	.....
59	12-13	54	41.4	.....	45.6	41.50	0.91	54	42.3	46.2	42.25	0.00	54	42.41	.....	42.25	+0.16	.....
60	12-13	55	53.9	.....	.....	53.90	0.90	55	54.6	58.6	54.60	-0.01	55	54.80	.....	54.59	+0.21	.....
61	10-11	56	0.9	.....	5.1	1.00	0.91	56	1.8	5.8	1.80	0.01	56	1.91	.....	1.79	+0.12	.....
62	12	56	15.5	.....	19.6	15.55	0.91	56	16.0	20.2	16.10	0.01	56	16.46	.....	16.09	+0.37	.....
63	11	56	37.8	.....	41.7	37.75	0.90	56	38.7	42.9	38.80	0.01	56	38.65	.....	38.79	-0.14	.....
64	.....	.....	.....	.....	.....	.....	.....	57	15.3	.....	15.30	0.01	57	.....	.....	15.29	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	57	19.6	23.4	19.50	0.01	57	.....	.....	19.49	.....	.....
66	12-13	58	13.3	.....	17.4	13.35	0.90	58	14.0	18.0	14.00	0.01	58	14.25	.....	13.99	+0.26	.....
67	10-11	58	27.9	.....	31.9	27.90	0.89	58	28.9	32.8	28.85	0.02	58	28.79	.....	28.83	-0.04	.....
68	11-12	59	15.3	.....	18.9	15.10	0.88	59	16.1	20.1	16.10	0.02	59	15.98	.....	16.08	-0.10	.....
69	11-12	22	59	20.1	24.2	20.15	0.88	22	59	25.0	21.00	0.02	22	59	21.03	20.98	+0.05
70	12-13	23	0	3.1	3.10	0.89	23	0	4.0	7.9	3.95	0.02	23	0	3.99	3.93	+0.06
71	.....	.....	.....	.....	.....	.....	.....	0	33.3	37.4	33.35	0.02	0	.....	.....	33.37	.....	.....
72	12-13	0	.....	.....	41.1	37.10	0.88	.....	.....	.....	.....	.....	0	37.98	.....	.....	.....	.....
73	12-13	0	46.4	.....	50.3	46.35	0.88	0	47.4	51.3	47.35	0.02	0	47.23	.....	47.33	-0.10	.....
74	11	0	56.3	.....	60.0	56.15	0.89	.....	.....	.....	.....	.....	0	57.04	.....	.....	.....	.....
75	12	1	.....	.....	28.7	24.70	0.88	1	25.5	29.5	25.50	0.03	1	25.58	.....	25.47	+0.11	.....
76	12	1	33.9	.....	37.9	33.90	0.88	1	34.6	38.8	34.70	0.03	1	34.78	.....	34.67	+0.11	.....
77	12	1	52.9	.....	56.9	52.90	0.88	1	53.7	57.6	53.65	0.03	1	53.78	.....	53.62	+0.16	.....
78	.....	1	58.5	.....	62.1	58.30	0.87	.....	.....	.....	.....	.....	1	59.17	.....	.....	.....	.....
79	12	2	9.7	.....	13.7	9.70	0.87	.....	.....	.....	.....	.....	2	10.57	.....	.....	.....	.....
80	12	2	10.9	.....	14.9	10.90	0.87	2	11.9	15.7	11.80	0.03	2	11.77	.....	11.77	0.00	.....
81	10-11	2	27.8	.....	31.8	27.80	0.88	2	28.8	32.8	28.80	0.03	2	28.68	.....	28.77	-0.09	.....
82	11-12	2	30.0	.....	34.0	30.00	0.87	.....	.....	.....	.....	.....	2	30.87	.....	.....	.....	.....
83	12	2	39.8	.....	43.7	39.75	0.87	2	40.8	44.9	40.85	0.03	2	40.62	.....	40.82	-0.20	.....
84	12	2	49.7	.....	53.7	49.70	0.87	2	50.5	54.5	50.50	0.03	2	50.57	.....	50.47	+0.10	.....
85	12	3	56.9	.....	60.9	56.90	0.86	3	57.8	61.7	57.75	0.04	3	57.76	.....	57.71	+0.05	.....
86	11-12	4	22.5	.....	26.5	22.50	0.86	4	23.5	27.4	23.45	0.04	4	23.36	.....	23.41	-0.05	.....
87	12-13	5	13.8	.....	17.7	13.75	0.86	5	14.5	18.3	14.40	0.04	5	14.61	.....	14.36	+0.25	.....
88	12-13	6	4.0	.....	8.0	4.00	0.85	6	4.8	8.8	4.80	0.04	6	4.85	.....	4.76	+0.09	.....
89	12	6	11.7	.....	.....	11.70	0.86	6	12.5	16.5	12.50	0.04	6	12.56	.....	12.46	+0.10	.....
90	12	23	6	20.1	23.9	20.00	+0.85	23	6	20.7	21.7	20.70	-0.05	23	6	20.85	20.65	+0.20

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. +^o40' to ^o50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 156.	d.	Zone 142.	Zone 156.		
46	+ 2 30	-12.7	+ 2 36	....	° ' "	"	"
47	10 2	13.9	10 8	....	....	....	....
48	....	....	9 11	....	....	....	....
49	8 10	13.8	8 14	....	....	....	....
50	8 0	13.7	....	....	....	....	....
51	0 9	12.2	0 10	....	....	....	....
52	1 39	12.5	1 43	....	....	....	....
53	2 59	12.8	....	....	....	....	....
54	9 18	13.8	9 20	....	....	....	....
55	+ 4 3	13.0	4 8	....	....	....	....
56	....	....	+ 0 40	....	....	....	....	Declination doubtful.
57	- 0 20	12.2	- 0 20	....	....	....	....
58	+ 4 39	13.1	+ 4 40	....	....	....	....
59	8 39	13.9	8 46	....	....	....	....
60	3 0	12.8	3 3	....	....	....	....
61	5 34	13.3	5 38	....	....	....	....
62	+ 7 8	13.6	+ 7 12	....	....	....	....
63	- 0 13	12.3	- 0 11	....	....	....	....
64	....	....	+ 2 38	....	....	....	....
65	....	....	1 22	....	....	....	....
66	+ 7 1	13.6	7 5	....	....	....	....
67	5 41	13.4	5 46	....	....	....	....
68	+ 0 11	12.3	+ 0 17	....	....	....	....
69	- 0 19	12.3	- 0 17	....	....	....	....
70	+ 8 58	14.0	+ 9 3	....	....	....	....
71	....	....	4 40	....	....	....	....
72	3 10	12.9	....	....	....	....	....
73	2 30	12.8	2 38	....	....	....	....
74	10 45	14.4	....	....	....	....	....
75	6 40	13.6	6 46	....	....	....	....
76	5 55	13.5	5 58	....	....	....	....
77	7 22	13.7	7 27	....	....	....	....
78	3 ..	....	....	....	....	....	....
79	1 58	12.7	....	....	....	....	....
80	4 0	13.1	4 1	....	....	....	....
81	7 57	13.9	8 1	....	....	....	....
82	1 12	12.6	....	....	....	....	....
83	0 44	12.5	0 47	....	....	....	....
84	0 11	12.4	0 15	....	....	....	....
85	1 52	12.8	1 54	....	....	....	....
86	1 6	12.6	1 9	....	....	....	....
87	6 19	13.6	6 22	....	....	....	....
88	4 28	13.2	4 30	....	....	....	....
89	6 32	13.7	6 38	....	....	....	....
90	+ 3 52	-13.2	+ 3 52	....	....	....	....

A.R. $22^{\text{h}} 25^{\text{m}}$ to $23^{\text{h}} 51^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 142.					ZONE 156.					MEAN RIGHT ASCENSION. 1860.0				Difference.		
		First Wire		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 142.		Zone 156.				
		h.	m.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.	s.	s.			
91	12	23	6	29.2	33.2	29.20	+0.85	23	6	....	34.2	30.20	-0.05	23	6	30.05	30.15	-0.10
92	11-12		6	32.3	36.2	32.25	0.85		6	....	37.0	33.00	0.05		6	33.10	32.95	+0.15
93	12		7	15.2	19.2	15.20	0.85		7	16.3	20.1	16.20	0.05		7	16.05	16.15	-0.10
94	....		.....	.....	.....	.....	.....		7	....	34.0	30.00	0.05		7	.....	29.95	....
95	12-13		9	19.0	22.8	18.90	0.83		9	19.9	23.9	19.90	0.06		9	19.73	19.84	-0.11
96	11-12		9	44.1	48.2	44.15	0.84		9	45.1	49.0	45.05	0.06		9	44.99	44.99	0.00
97	12-13		10	4.2	7.9	4.05	0.83		10	5.0	9.0	5.00	0.06		10	4.88	4.94	-0.06
98	12		10	19.9	23.8	19.85	0.83		10	20.7	24.7	20.70	0.06		10	20.68	20.64	+0.04
99	12		10	22.8	26.7	22.75	0.83		10	23.8	27.7	23.75	0.06		10	23.58	23.69	-0.11
100	12		11	0.4	4.3	0.35	0.83		11	1.2	5.2	1.20	0.06		11	1.18	1.14	+0.04
101	12		11	8.0	....	8.00	0.83		11	8.7	12.7	8.70	0.06		11	8.83	8.64	+0.19
102	12-13		11	36.6	40.6	36.60	0.82		11	37.3	41.6	37.45	0.06		11	37.42	37.39	+0.03
103	12-13		12	59.0	62.6	58.80	0.82		.....	.....	.....	.....	.....		12	59.62	.....	.....
104	11-13		13	3.7	7.5	3.60	0.82		13	4.4	8.0	4.40	0.07		13	4.42	4.33	+0.09
105	....		.....	.....	.....	.....	.....		13	15.8	19.4	15.60	0.07		13	.....	15.53	.....
106	12-14		15	1.0	4.9	0.95	0.81		15	1.8	5.7	1.75	0.08		15	1.76	1.67	+0.09
107	10-12		15	16.1	20.0	16.05	0.81		15	16.7	20.8	16.75	0.08		15	16.86	16.67	+0.19
108	....		.....	.....	.....	.....	.....		16	57.9	62.0	57.95	0.08		16	.....	57.87	.....
109	12-14		19	47.9	51.9	47.90	0.79		19	48.7	52.6	48.65	0.09		19	48.69	48.56	+0.13
110	12-13		20	59.7	63.6	59.65	0.78		21	0.3	4.5	0.40	0.09		21	0.43	0.31	+0.12
111	12-13		21	20.0	24.0	20.00	0.78		21	21.0	24.9	20.95	0.09		21	20.78	20.86	-0.08
112	12-13		21	21.9	25.7	21.80	0.78		21	22.6	26.6	22.60	0.09		21	22.58	22.51	+0.07
113	12-14		22	39.4	43.4	39.40	0.77		22	40.2	44.1	40.15	0.10		22	40.17	40.05	+0.12
114	12-13		.....	.....	.....	.....	.....		22	58.3	62.2	58.25	0.10		22	.....	58.15	.....
115	11-12		23	21.4	25.3	21.35	0.78		23	22.1	26.1	22.10	0.10		23	22.13	22.00	+0.13
116	11-13		23	31.2	35.2	31.20	0.77		23	32.1	36.0	32.05	0.10		23	31.97	31.95	+0.02
117	12-14		24	39.4	43.2	39.30	0.76		24	40.0	43.9	39.95	0.10		24	40.06	39.85	+0.21
118	11-13		24	55.2	....	55.20	0.77		24	56.0	59.9	55.95	0.10		24	55.97	55.85	+0.12
119	11		25	37.0	....	37.00	0.76		.....	.....	.....	.....	.....		25	37.76	.....	.....
120	12		25	....	40.6	36.60	0.76		25	37.6	41.7	37.65	0.11		25	37.36	37.54	-0.18
121	11		27	46.9	51.0	46.95	0.76		27	47.5	51.6	47.55	0.11		27	47.71	47.44	+0.27
122	12-13		27	58.9	62.9	58.90	0.75		27	59.8	63.8	59.80	0.11		27	59.65	59.69	-0.04
123	11-12		29	29.0	33.0	29.00	0.75		29	29.8	33.8	29.80	0.12		29	29.75	29.68	+0.07
124	12-13		29	31.6	35.5	31.55	0.74		29	32.4	36.5	32.45	0.12		29	32.29	32.33	-0.04
125	12		30	42.9	46.9	42.90	0.74		30	43.8	....	43.80	0.12		30	43.64	43.68	-0.04
126	12-13		31	27.8	31.9	27.85	0.74		31	29.0	32.7	28.85	0.13		31	28.59	28.72	-0.13
127	10-12		31	30.2	34.2	30.20	0.74		31	30.9	34.9	30.90	0.13		31	30.94	30.77	+0.17
128	10-12		32	26.8	30.8	26.80	0.73		32	27.6	31.5	27.55	0.13		32	27.53	27.42	+0.11
129	9-11		32	50.1	54.1	50.10	0.73		32	50.8	54.9	50.85	0.13		32	50.83	50.72	+0.11
130	13		33	46.0	49.9	45.95	0.73		33	46.7	50.7	46.70	0.14		33	46.68	46.56	+0.12
131	11-13		34	20.4	....	20.40	0.72		34	21.4	25.4	21.40	0.14		34	21.12	21.26	-0.14
132	12-13		35	29.3	33.4	29.35	0.72		35	30.3	34.3	30.30	0.14		35	30.07	30.16	-0.09
133	12-13		36	39.6	43.4	39.50	0.72		36	40.3	44.3	40.30	0.15		36	40.22	40.15	+0.07
134	12-13		36	45.3	49.3	45.30	0.71		36	....	50.2	46.20	0.15		36	46.01	46.05	-0.04
135	12-13	23	37	44.7	48.6	44.65	+0.70	23	37	45.6	49.6	45.60	-0.15	23	37	45.35	45.45	-0.10

A.R. ^{h.}23 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. +^o 40 to ^o 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 156.	d.	Zone 142.	Zone 156.		
91	+ 6 3	-13.6	+ 6 10	...	.....	.....	...
92	5 23	13.4	5 27	....	.....	.....	....
93	5 35	13.5	5 38	....	.....	.....	....
94	....	....	5 13	....	.....	.....	....
95	0 54	12.7	0 54	....	.....	.....	....
96	5 21	13.5	5 27	....	.....	.....	....
97	1 30	12.8	1 30	....	.....	.....	....
98	6 22	13.7	6 26	....	.....	.....	....
99	6 1	13.7	6 6	....	.....	.....	....
100	7 47	14.0	7 48	....	.....	.....	....
101	9 28	14.3	9 30	....	.....	.....	....
102	3 0	13.1	3 5	....	.....	.....	....
103	3 17	13.1	....	....	.....	.....	....
104	8 50	14.2	8 54	....	.....	.....	....	Companion 21" n. p. 14th mag.
105	6 3	13.7	6 8	....	.....	.....	....	No stars above 12th mag.
106	6 30	13.8	6 37	....	.....	.....	....
107	10 38	14.6	10 44	....	.....	.....	....	Declination doubtful in zone 156.
108	....	....	7 4	....	.....	.....	....	No stars above 15th mag.
109	7 12	14.0	7 15	....	.....	.....	....
110	8 12	14.2	8 18	....	.....	.....	....
111	8 8	14.2	8 9	....	.....	.....	....
112	7 49	14.1	7 51	....	.....	.....	....
113	1 2	12.8	1 10	....	.....	.....	....
114	....	....	0 16	....	.....	.....	....
115	9 55	14.6	10 0	....	.....	.....	....
116	6 3	13.8	6 8	....	.....	.....	....
117	3 30	13.4	3 39	....	.....	.....	....
118	+10 39	14.7	10 37	....	.....	.....	....
119	- 0 28	12.6	....	....	.....	.....	....
120	+ 2 49	13.3	2 50	....	.....	.....	....
121	10 1	14.7	10 7	....	.....	.....	....
122	5 29	13.8	5 30	....	.....	.....	....
123	7 30	14.2	7 25	....	.....	.....	....
124	0 19	12.8	0 18	....	.....	.....	....
125	6 23	14.0	6 28	....	.....	.....	....
126	9 17	14.6	9 20	....	.....	.....	....
127	8 8	14.4	8 14	....	.....	.....	....
128	3 51	13.6	4 0	....	.....	.....	....
129	6 4	14.0	6 13	....	.....	.....	....
130	7 22	14.2	7 21	....	.....	.....	....
131	0 6	12.9	0 9	....	.....	.....	....	Meteor crossed the field.
132	6 43	14.1	6 46	....	.....	.....	....
133	9 29	14.7	9 32	....	.....	.....	....
134	1 16	14.1	1 18	....	.....	.....	....
135	+ 2 9	-14.3	+ 2 14	....	.....	.....	....

A.R. ^{h.}23 ^{m.}25 to ^{h.}23 ^{m.}51.

Dec. +0° 40' to 0° 50'.

Number of the Star.	Magnitude.	ZONE 142.					ZONE 156.					MEAN RIGHT ASCENSION. 1860.0					Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	First Wire.			Second Wire.	Mean red. to 1st Wire.	h.	Zone 142.				Zone 156.
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.		s.
136	11-12	23	39	45.8	49.8	45.80	+0.69	23	39	46.8	50.7	46.75	-0.16	23	39	46.49	46.59	-0.10
137	12		41	17.4	21.5	17.45	0.69		41	18.3	22.2	18.25	0.16		41	18.14	18.09	+0.05
138	11-12		42	49.4	53.4	49.40	0.68		42	50.2	54.2	50.20	0.17		42	50.08	50.03	+0.05
139	13		43	0.8	4.8	0.80	0.68		43	1.6	5.3	1.45	0.17		43	1.48	1.28	+0.20
140	12		43	54.6	58.7	54.65	0.67		.....	.....	.....	.....			43	55.32	.....	.....
141	10-11		43	55.7	59.7	55.70	0.68		43	56.5	60.3	56.40	0.17		43	56.38	56.23	+0.15
142	10-11		44	17.0	21.0	17.00	0.68		44	18.0	22.0	18.00	0.17		44	17.68	17.83	-0.15
143	12-13		44	37.8	41.6	37.70	0.67		44	38.4	42.5	38.45	0.17		44	38.37	38.28	+0.09
144	10		44	55.3	59.6	55.45	0.67		44	56.7	60.4	56.55	0.17		44	56.12	56.38	-0.26
145	8-9		45	.....	10.4	6.40	0.67		45	7.1	11.0	7.05	0.18		45	7.07	6.87	+0.20
146	13		45	.....	22.3	18.30	0.66		.....	.....	.....	.....			45	18.96	.....	.....
147	12		45	33.8	37.8	33.80	0.66		45	34.9	38.7	34.80	0.18		45	34.46	34.62	-0.16
148	12		46	53.9	57.7	53.80	0.66		46	54.6	58.6	54.60	0.18		46	54.46	54.42	+0.04
149	12-13		47	0.5	4.6	0.55	0.66		47	1.6	5.4	1.50	0.18		47	1.21	1.32	-0.11
150	12		47	32.5	37.1	32.80	0.66		47	33.9	37.9	33.90	0.18		47	33.46	33.72	-0.26
151	12-13		47	33.3	.....	33.30	0.66		.....	.....	.....	.....			47	33.96	.....	.....
152	.....		.....	.....	.....	.....	.....		47	47.0	51.0	47.00	0.18		47	.....	46.82	.....
153	11		48	56.3	60.3	56.30	0.65		48	57.3	61.2	57.25	0.19		48	56.95	57.04	-0.09
154	12-13		48	59.6	63.6	59.60	0.65		.....	.....	.....	.....			49	0.25	.....	.....
155	12		49	48.0	52.0	48.00	0.65		49	48.9	52.9	48.90	0.19		49	48.65	48.71	-0.06
156	12-13		50	26.7	31.0	26.85	0.64		50	27.7	32.0	27.85	0.19		50	27.49	27.66	-0.17
157	12-13		50	29.8	33.7	29.75	0.64		50	30.7	34.6	30.65	0.19		50	30.39	30.46	-0.07
158	.....		50	34.6	38.6	34.60	0.64		50	.....	39.5	35.50	0.19		50	35.24	35.31	-0.07
159	11-12		51	11.5	15.5	11.50	0.64		51	12.2	16.0	12.10	0.19		51	12.14	11.91	+0.23
160	11-12	23	51	24.3	28.4	24.35	+0.64	23	51	25.3	29.3	25.30	-0.19	23	51	24.99	25.11	-0.12

A.R. ^{h.}22 ^{m.}25 to ^{h.}23 ^{m.}51.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 156.	d.	Zone 142.	Zone 156.		
136	+ 0 11	-12.9	+ 0 19	-18.5	+ 0 39 58.1	60.5	- 2.4	Starless field.
137	7 36	14.4	7 41	19.5	0 47 21.6	21.5	+ 0.1	
138	1 19	13.2	1 21	18.8	0 41 5.8	2.2	+ 3.6	
139	5 21	14.0	5 24	19.3	0 45 7.0	4.7	+ 2.3	
140	1 20	14.2	1 26	18.8	0 41 5.8	7.2	- 1.4	
141	9 1	14.7	9 6	19.8	0 48 46.3	46.2	+ 0.1	
142	8 7	14.5	8 12	19.7	0 47 52.5	52.3	+ 0.2	
143	0 22	13.0	0 28	18.7	0 40 9.0	9.3	- 0.3	
144	3 46	13.7	3 52	19.1	0 43 32.3	32.9	- 0.6	
145	+ 3 25	13.6	3 31	19.1	0 43 11.4	11.9	- 0.5	
146	- 0 8	13.0	0 39 39.0	Comp. n. 13" 15th mag.
147	+ 0 49	13.2	0 55	18.8	0 40 35.8	36.2	- 0.4	
148	7 52	14.5	7 56	19.7	0 47 37.5	36.3	+ 1.2	
149	2 51	13.6	2 55	19.1	0 42 37.4	35.9	+ 1.5	
150	8 ..	....	8 51	19.8	0 48	31.2	....
151	7 31	14.5	7 3	19.6	0 47 16.5	....	....
152	....	....	7 31	19.7	0 47	11.3	....
153	7 5	14.4	7 11	19.7	0 46 50.6	51.3	- 0.7	
154	1 50	13.4	....	....	0 41 36.6	....	....
155	7 48	14.6	7 54	19.8	0 47 33.4	34.2	- 0.8	
156	5 59	14.2	6 2	19.6	0 45 44.8	42.4	+ 2.4	
157	5 27	14.1	5 21	19.5	0 45 12.9	1.5	+11.4	
158	....	....	5 43	19.6	0 45	23.4	....
159	8 57	14.8	9 2	20.0	0 48 42.2	42.0	+ 0.2	
160	+ 4 30	-13.9	+ 4 35	-19.4	+ 0 44 16.1	15.6	+ 0.5	

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.Dec. [°]+0 [']50 to [°]1 [']0.

Number of the Star.	Magnitude.	ZONE 143.					ZONE 144.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 143.		Zone 144.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	
1	9-10	20 27 58.4	....	58.40	+0.62		.....	.....	.....	.....		20 27 59.02	.....	.....
2	9-10	27	62.6	58.60	0.63		.....	.....	.....	.....		27 59.23	.....	.....
3	11-12	28 28.3	32.2	28.25	0.63		20 28 28.1	32.2	28.15	+0.61		28 28.88	28.76	+0.12	
4	1	28	38.9	34.90	0.62		.....	.....	.....	.....		28 35.52	.....	.....
5	12	29 6.6	10.3	6.45	0.63		29 6.5	10.5	6.50	0.61		29 7.08	7.11	-0.03	
6	12	29 37.2	41.2	37.20	0.62		29 37.3	41.0	37.15	0.60		29 37.82	37.75	+0.07	
7	12	29 40.4	44.4	40.40	0.62		29 40.3	44.4	40.35	0.60		29 41.02	40.95	+0.07	
8	10	29	48.2	44.20	0.61		.....	.....	.....	.....		29 44.81	.....	.....
9	11	29 57.7	.....	57.70	0.61		29 57.6	61.5	57.55	0.59		29 58.31	58.14	+0.17	
10	11-12	29	61.9	57.90	0.62		.....	.....	.....	.....		29 58.52	.....	.....
11	11-12	30 42.5	46.7	42.60	0.61		30 42.5	46.6	42.55	0.59		30 43.21	43.14	+0.07	
12	12-13	30 43.3	47.3	43.30	0.61		.....	.....	.....	.....		30 43.91	.....	.....
13	12-13	31 10.0	14.1	10.05	0.61		31 10.0	.....	10.00	0.59		31 10.66	10.59	+0.07	
14	11-12	31 18.3	22.2	18.25	0.61		31 18.0	22.1	18.05	0.59		31 18.86	18.64	+0.22	
15	10-11	31 29.8	33.7	29.75	0.60		31 29.7	33.7	29.70	0.58		31 30.35	30.28	+0.07	
16	12	32 2.3	6.3	2.30	0.61		32 2.3	6.3	2.30	0.58		32 2.91	2.88	+0.03	
17	12	32 13.1	17.2	13.15	0.60		32 13.2	17.3	13.25	0.58		32 13.75	13.83	-0.08	
18	12	32	22.2	18.20	0.60		.....	.....	.....	.....		32 18.80	.....	.....
19	12-13	33 1.4	5.6	1.50	0.61		.....	.....	.....	.....		33 2.11	.....	.....
20	11-12	33 15.2	19.2	15.20	0.60		33 15.0	18.9	14.95	0.57		33 15.80	15.52	+0.28	
21	12	33 20.4	24.3	20.35	0.60		33 20.2	24.0	20.10	0.57		33 20.95	20.67	+0.28	
22	12	33 41.7	45.3	41.50	0.60		33	45.3	41.30	0.57		33 42.10	41.87	+0.23	
23	12-13	35 24.0	.....	24.00	0.59		.....	.....	.....	.....		35 24.59	.....	.....
24	13	35	27.9	23.90	0.58		.....	.....	.....	.....		35 24.48	.....	.....
25	11-12	35 31.6	35.6	31.60	0.59		.....	.....	.....	.....		35 32.19	.....	.....
26	12	36 3.5	7.5	3.50	0.59		36 3.5	7.4	3.45	0.55		36 4.09	.....	.....
27	12	36 36.1	40.0	36.05	0.58		.....	.....	.....	.....		36 36.63	.....	.....
28	12	36	44.1	40.10	0.58		.....	.....	.....	.....		36 40.68	.....	.....
29	12	36	55.9	51.90	0.58		36 51.7	55.8	51.75	0.55		36 52.48	52.30	+0.18	
30	11-12	37 42.3	46.3	42.30	0.57		37 42.4	46.3	42.35	0.54		37 42.87	42.89	-0.02	
31	11-13	38 33.5	37.5	33.50	0.57		38 33.5	37.4	33.45	0.53		38 34.07	33.98	+0.09	
32	12-13	38 40.3	44.1	40.20	0.57		38 40.3	44.2	40.25	0.53		38 40.77	40.78	-0.01	
33	12-13	38 56.2	60.0	56.10	0.57		.....	.....	.....	.....		38 56.67	.....	.....
34	12	39 15.5	19.6	15.55	0.57		.....	.....	.....	.....		39 16.12	.....	.....
35	13	40 17.8	21.8	17.80	0.57		.....	.....	.....	.....		40 18.37	.....	.....
36	12-13	40 24.9	.....	24.90	0.56		.....	.....	.....	.....		40 25.46	.....	.....
37	11	40 35.8	39.7	35.75	0.57		40 35.3	39.6	35.45	0.53		40 36.32	35.98	+0.34	
38	12	41 0.0	4.0	0.00	0.56		40 60.0	63.9	59.95	0.52		41 0.56	0.47	+0.09	
39	11-12	41 25.5	29.5	25.50	0.55		.....	.....	.....	.....		41 26.05	.....	.....
40	9	41 31.0	34.9	30.95	0.56		41 31.2	35.0	31.10	0.52		41 31.51	31.62	-0.11	
41	12	41 42.9	46.8	42.85	0.55		.....	.....	.....	.....		41 43.40	.....	.....
42	12	41 45.3	49.4	45.35	0.55		.....	.....	.....	.....		41 45.90	.....	.....
43	12	42 37.0	.....	37.00	0.55		42 37.0	41.0	37.00	0.51		42 37.55	37.51	+0.04	
44	12	42 47.6	51.6	47.60	0.55		20 42 47.6	51.7	47.65	+0.51		42 48.15	48.16	-0.01	
45	12-13	20 42 58.4	62.4	58.40	+0.55		.....	.....	.....	.....		20 42 58.95	.....	.....

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 143.	d.	Zone 144.	d.	Zone 143.	Zone 144.		
1	+ 1 0	+14.7	+ 1 10	+ 2.6	+ 0 51 14.7	12.6	+ 2.1	
2	8 9	13.8	8 20	1.7	0 58 22.8	21.7	+ 1.1	
3	8 27	13.7	8 30	1.6	0 58 30.7	31.6	- 0.9	
4	4 21	14.2	....	...	0 54 35.2	....	...
5	10 18	13.4	10 31	1.5	1 0 31.4	32.5	- 1.1	
6	9 0	13.6	9 10	1.4	0 59 13.6	11.4	+ 2.2	
7	7 17	13.8	7 29	1.6	0 57 30.8	30.6	+ 0.2	
8	0 ..	....	....	...	0 50 ....	....	...
9	1 20	14.4	1 31	2.3	0 51 34.4	33.3	+ 1.1	
10	6 41	13.8	6 52	1.7	0 56 54.8	53.7	+ 1.1	
11	3 35	14.1	3 47	2.0	0 53 49.1	49.0	+ 0.1	
12	2 27	14.3	....	...	0 52 41.3	....	...
13	6 12	13.7	6 25	1.6	0 56 25.7	26.6	- 0.9	
14	4 45	13.9	4 58	1.8	0 54 58.9	59.8	- 0.9	
15	1 5	14.3	1 17	2.2	0 51 19.3	19.2	+ 0.1	
16	8 57	13.3	9 9	1.2	0 59 10.3	10.2	+ 0.1	
17	3 30	14.0	3 42	1.8	0 53 44.0	43.8	+ 0.2	
18	1 8	14.3	....	...	0 51 22.3	....	...	Distant comp., n. p.
19	10 21	13.3	....	...	1 0 34.3	....	...
20	1 50	14.1	2 3	1.9	0 52 4.1	4.9	- 0.8	
21	3 9	13.9	3 ..	...	0 53 22.9	....	...
22	8 22	13.3	8 33	1.1	0 58 35.3	34.1	+ 1.2	Comp., n. p. 5". 12th mag.
23	1 9	14.0	1 23	1.7	0 51 23.0	24.7	- 1.7	
24	0 35	14.0	....	...	0 50 49.0	....	...	Doubtful in declination.
25	5 25	13.4	....	...	0 55 38.4	....	...
26	5 19	13.4	....	...	0 55 32.4	....	...
27	1 51	13.8	....	...	0 52 4.8	....	...
28	8 3	13.0	....	...	0 58 16.0	....	...
29	5 59	13.3	6 11	1.0	0 56 12.3	12.0	+ 0.3	
30	2 57	13.6	3 9	1.3	0 53 10.6	10.3	+ 0.3	
31	1 50	13.6	2 1	1.3	0 52 3.6	2.3	+ 1.3	
32	2 57	13.5	3 8	1.2	0 53 10.5	9.2	+ 1.3	
33	1 9	13.7	....	...	0 51 22.7	....	...
34	5 32	13.1	....	...	0 55 45.1	....	...
35	6 30	12.9	....	...	0 56 42.9	....	...
36	1 43	13.5	1 56	1.1	0 51 56.5	57.1	- 0.6	
37	8 20	12.6	8 34	0.3	0 58 32.6	34.3	- 1.7	
38	+ 9 56	12.4	....	...	1 0 8.4	....	...	Comp., 20" f. 13th mag.
39	- 0 10	13.6	....	...	0 50 3.6	....	...
40	+10 21	12.3	10 35	0.0	1 0 33.3	35.0	- 1.7	
41	4 0	13.1	....	...	0 54 13.1	....	...
42	1 32	13.4	....	...	0 51 45.4	....	...
43	3 2	13.1	3 15	+ 0.7	0 53 15.1	15.7	- 0.6	
44	9 21	12.3	+ 9 31	- 0.1	0 59 33.3	30.9	+ 2.4	
45	+ 7 8	+12.6	....	...	+ 0 57 20.6	....	...

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 143.					ZONE 144.					MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 143.		Zone 144.		
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.		
46	11-12	20 43 8.3	12.3	8.30	+0.55	20 43 8.4	12.2	8.30	+0.51	20 43 8.85	8.81	+0.04				
47	11-12	43 57.0	61.1	57.05	0.54	43 57.3	61.2	57.25	0.50	43 57.59	57.75	-0.16				
48	12-13	43 59.5	63.4	59.45	0.54	43	63.4	59.40	0.50	43 59.99	59.90	+0.09				
49	10-11	44 13.0	16.8	12.90	0.55	.....	.....	.....	.....	44 13.45	.....	.....		
50	10-11	44 22.4	26.4	22.40	0.55	44 22.3	26.3	22.30	0.51	44 22.95	22.81	+0.14				
51	12-13	45 16.4	20.6	16.50	0.54	.....	.....	.....	.....	45 17.04	.....	.....		
52	12-13	45 35.9	40.0	35.95	0.53	45	39.8	35.80	0.49	45 36.48	36.29	+0.19				
53	13	45	62.3	58.30	0.53	.....	.....	.....	.....	45 58.83	.....	.....		
54	9-10	46 5.8	....	5.80	0.53	46 5.9	9.7	5.80	0.49	46 6.33	6.29	+0.04			
55	13	46 43.8	....	43.80	0.53	.....	.....	.....	.....	46 44.33	.....	.....		
56	9-10	46 48.0	52.1	48.05	0.52	46 47.9	51.9	47.90	0.48	46 48.57	48.38	+0.19				
57	11-12	47 23.8	27.8	23.80	0.52	47 23.7	27.7	23.70	0.48	47 24.32	24.18	+0.14				
58	11-12	47 41.7	45.7	41.70	0.52	47 41.8	45.7	41.75	0.48	47 42.22	42.23	-0.01				
59	12	48 45.0	49.1	45.05	0.51	48 45.1	....	45.10	0.47	48 45.56	45.57	-0.01			
60	12	48 48.3	52.3	48.30	0.52	48	52.4	48.40	0.48	48 48.82	48.88	-0.06				
61	12	48 59.9	64.0	59.95	0.51	48 60.0	63.9	59.95	0.47	49 0.46	0.42	+0.04				
62	12-13	49 15.0	19.0	15.00	0.51	49 15.2	19.1	15.15	0.47	49 15.51	15.62	-0.11				
63	11-12	49 33.8	37.7	33.75	0.51	49 33.7	37.7	33.70	0.47	49 34.26	34.17	+0.09				
64	12-13	49 48.4	52.5	48.45	0.50	49 48.5	52.3	48.40	0.46	49 48.95	48.86	+0.09				
65	9-10	50 7.9	12.0	7.95	0.50	50 8.0	12.0	8.00	0.46	50 8.45	8.46	-0.01				
66	12-13	50 59.2	62.9	59.05	0.50	.....	.....	.....	.....	50 59.55	.....	.....		
67	....	.....	.....	.....	.....	51 6.3	10.1	6.20	0.45	51	6.65	.....			
68	11	51 8.6	12.5	8.55	0.50	51	12.5	8.50	0.46	51 9.05	8.96	+0.09				
69	12-13	51 40.9	44.7	40.80	0.50	.....	.....	.....	.....	51 41.30	.....	.....		
70	11-12	52 17.9	21.0	17.95	0.50	52 17.3	21.1	17.20	0.45	51 18.45	17.65	-0.20				
71	12	52	30.6	26.60	0.50	.....	.....	.....	.....	52 27.10	.....	.....		
72	11-12	52 36.1	40.2	36.15	0.49	52 36.2	40.2	36.20	0.44	52 36.64	36.64	0.00				
73	12-13	52 52.5	56.3	52.40	0.49	52 52.3	56.0	52.15	0.45	52 52.89	52.60	+0.29				
74	13	53	4.3	0.30	0.49	.....	.....	.....	.....	53 0.79	.....	.....		
75	12-13	53 47.7	51.7	47.70	0.49	53 47.7	51.9	47.80	0.44	53 48.19	48.24	-0.05				
76	8-10	54 22.7	26.4	22.55	0.49	54 22.4	26.3	22.35	0.44	54 23.04	22.79	+0.25				
77	10	54 40.8	....	40.80	0.49	.....	.....	.....	.....	54 41.29	.....	.....		
78	11	54 44.6	48.3	44.45	0.49	.....	.....	.....	.....	54 44.94	.....	.....		
79	12	55 2.7	6.5	2.60	0.48	.....	.....	.....	.....	55 3.08	.....	.....		
80	12	55 3.4	7.4	3.40	0.48	.....	.....	.....	.....	55 3.88	.....	.....		
81	12-13	55 31.7	35.7	31.70	0.47	55 31.5	....	31.50	0.42	55 32.17	31.92	+0.25			
82	12	55 47.1	51.1	47.10	0.47	55 47.4	....	47.40	0.42	55 47.57	47.82	-0.25			
83	6-7	55 53.3	57.3	53.30	0.47	55 53.3	57.2	53.25	0.43	55 53.78	53.68	+0.10				
84	12	56 23.2	27.0	23.10	0.47	56 23.2	27.1	23.15	0.42	56 23.57	23.57	0.00				
85	12	56 32.3	36.3	32.30	0.47	.....	.....	.....	.....	56 32.77	.....	.....		
86	11-12	56 33.2	37.2	33.20	0.47	56 33.1	37.3	33.20	0.42	56 33.67	33.62	+0.05				
87	12	56 57.5	....	57.50	0.46	56 57.3	61.2	57.25	0.41	56 57.96	57.66	+0.30			
88	12-13	57 32.1	....	32.10	0.46	.....	.....	.....	.....	57 32.56	.....	.....		
89	12	57 34.8	38.8	34.80	0.47	57 34.7	38.8	34.75	0.41	57 35.27	35.16	+0.11				
90	11	20 57 39.4	43.5	39.45	+0.47	20 57 39.6	43.4	39.50	+0.41	20 57 39.92	39.91	+0.01				

A.R. ^{h.} 20 ^{m.} 27 to ^{h.} 22 ^{m.} 31.Dec. +^o 50 to ^o 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 144.	d.	Zone 142.	Zone 144.		
46	+ 8 8	+12.4	+ 8 20	+ 0.1	+ 0 56 20.4	20.1	+ 0.3	
47	7 21	12.5	7 44	0.1	0 57 33.5	44.1	...	
48	2 40	12.9	2 55	+ 0.7	0 52 52.9	55.7	- 2.8	
49	9 29	12.2	....	....	0 59 41.2	....	...
50	9 25	12.2	9 39	- 0.2	0 59 37.2	38.8	- 1.6	
51	7 23	12.3	7 26	- 0.1	0 57 35.3	25.9	...	
52	2 15	12.9	2 29	+ 0.5	0 52 27.9	29.5	- 1.6	
53	3 20	12.8	....	....	0 53 32.8	....	...
54	2 19	12.9	2 30	0.4	0 52 31.9	30.4	+ 1.5	
55	7 36	12.2	....	....	0 57 48.2	....	...	Looked for carefully, not seen in zone 144.
56	3 23	12.7	3 36	+ 0.2	0 53 35.7	36.2	- 0.5	
57	8 44	12.0	8 59	- 0.5	0 58 56.0	58.5	- 2.5	
58	9 15	11.9	9 29	- 0.6	0 59 26.9	28.4	- 1.5	
59	2 41	12.5	2 54	+ 0.1	0 52 53.5	54.1	- 0.6	
60	9 39	11.8	10 1	- 0.8	0 59 50.8	60.2	...	
61	2 3	11.6	2 17	+ 0.1	0 52 14.6	17.1	- 2.5	
62	2 14	11.6	2 30	+ 0.1	0 52 25.6	30.1	- 4.5	
63	6 30	12.1	6 44	- 0.5	0 56 42.1	43.5	- 1.4	
64	1 1	12.7	1 12	+ 0.2	0 51 13.7	12.2	+ 1.5	
65	1 0	12.7	+ 1 12	0.1	0 51 12.7	12.1	+ 0.6	
66	9 6	11.6	....	....	0 59 17.6	....	...
67	....	....	- 0 20	+ 0.2	0 49	40.2	...	
68	7 19	11.8	+ 7 34	- 0.7	0 57 30.8	33.3	- 2.5	
69	9 34	11.5	....	....	0 59 45.5	....	...	Declination doubtful. Looked for, but not seen in zone 144.
70	9 51	11.4	10 7	1.2	1 0 2.4	5.8	- 3.4	
71	8 ..	....	....	....	0 58 ....	....	...
72	1 9	12.4	1 20	0.2	0 51 21.4	19.8	+ 1.6	
73	9 39	11.4	9 52	1.2	0 59 50.4	50.8	- 0.4	
74	8 26	11.5	....	....	0 58 37.5	....	...
75	10 3	11.3	....	....	1 0 14.3	....	...
76	7 5	11.6	+ 7 19	- 1.0	0 57 16.6	18.0	- 1.4	
77	10 27	11.1	....	....	1 0 38.1	....	...
78	10 39	11.1	....	....	1 0 50.1	....	...
79	3 10	12.0	....	....	0 53 22.0	....	...
80	+ 7 34	11.4	....	....	0 57 45.4	....	...
81	- 0 21	12.3	- 0 10	+ 0.3	0 49 51.3	49.7	+ 1.6	
82	+ 4 42	11.7	+ 4 58	- 0.9	0 54 53.7	57.1	- 3.4	
83	8 37	11.2	8 49	1.4	0 58 48.2	47.6	+ 0.6	
84	3 35	11.8	3 48	0.9	0 53 46.8	47.1	- 0.3	
85	2 4	12.0	....	....	0 52 16.0	....	...
86	+ 4 57	11.6	+ 5 9	1.0	0 55 8.6	8.0	+ 0.6	
87	- 0 14	12.2	- 0 2	0.5	0 49 58.2	57.5	+ 0.7	
88	+ 0 20	12.1	....	....	0 50 32.1	....	...
89	5 23	11.5	+ 5 36	1.2	0 55 34.5	34.8	- 0.3	
90	+ 6 50	+11.4	+ 7 7	- 1.4	+ 0 57 1.4	5.6	- 4.2	

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.

Dec. +0 50 to 1 6.

Number of the Star.	Magnitude.	ZONE 143.						ZONE 144.						MEAN RIGHT ASCENSION. 1859.0						Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	z.	First Wire.			Second Wire.	Mean red. to 1st Wire.	z.	Zone 143.			Zone 144.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.		
91	11-12	20	57	52.2	56.0	52.10	+0.47	20	57	52.0	55.7	51.85	+0.41	20	57	52.57	52.26	+0.31		
92	12-13		58	30.7	34.7	30.70	0.47		58	31.0	34.9	30.95	0.41		58	31.17	31.36	-0.19		
93	12-13		58	33.5	37.5	33.50	0.46		.....	.....	.....	.....	.....		58	33.96	.....	.....
94	12-13		59	21.3	25.5	21.40	0.46		59	21.3	25.2	21.25	0.40		59	21.86	21.65	+0.21		
95	12-14		59	24.5	28.4	24.45	0.46		59	24.5	28.5	24.50	0.40		59	24.91	24.90	+0.01		
96	12-13	20	59	47.7	51.4	47.55	0.46	20	59	47.8	51.6	47.70	0.40	20	59	48.01	48.10	-0.09		
97	9-10	21	0	1.0	5.1	1.05	0.45	21	0	1.1	5.0	1.05	0.39	21	0	1.50	1.44	+0.06		
98	9-10		0	43.7	47.7	43.70	0.45		0	43.7	47.6	43.65	0.39		0	44.15	44.04	+0.11		
99	10		0	.....	59.2	55.20	0.45		0	.....	59.9	55.90	0.39		0	55.65	56.29	+0.36
100	10	.....	.....	.....	.....	.....	.....		1	3.9	.....	3.90	0.39		1	.....	4.29	.....	
101	10-11		1	20.3	24.0	20.15	0.45		1	20.1	24.3	20.20	0.39		1	20.50	20.59	-0.09		
102	12		2	2.0	.....	2.00	0.45		.....	.....	.....	.....	.....		2	2.45	.....	.....
103	9-10		2	19.3	23.2	19.25	0.45		2	19.8	23.8	19.80	0.38		2	19.70	20.18	-0.48		
104	10		2	20.0	24.0	20.00	0.44		.....	.....	.....	.....	.....		2	20.44	.....	.....
105	12-13		2	60.0	63.9	59.95	0.44		2	59.9	63.8	59.85	0.37		3	0.39	0.22	+0.17		
106	12		3	11.2	15.0	11.10	0.44		.....	.....	.....	.....	.....		3	11.54	.....	.....
107	12		3	11.9	15.8	11.85	0.43		3	12.0	16.0	12.00	0.37		3	12.28	12.37	-0.09		
108	13-14		4	2.5	6.6	2.55	0.43		4	.....	.....	.....	.....		4	2.98	.....	.....
109	12-13		4	21.3	25.2	21.25	0.43		4	21.3	25.3	21.30	0.37		4	21.68	21.67	+0.01		
110	12-13		4	44.3	48.5	44.40	0.43		4	44.6	48.6	44.60	0.36		4	44.83	44.96	-0.13		
111	10-11		5	44.7	48.8	44.75	0.43		5	44.9	48.8	44.85	0.36		5	45.18	45.21	-0.03		
112	12-13		6	2.3	6.2	2.25	0.43		6	2.3	6.5	2.40	0.36		6	2.68	2.76	-0.08		
113	12-13		6	10.6	14.4	10.50	0.43		6	10.6	14.7	10.65	0.36		6	10.93	11.01	-0.08		
114	11-12		7	29.0	33.0	29.00	0.42		.....	.....	.....	.....	.....		7	29.42	.....	.....
115	11-13		7	33.6	37.6	33.60	0.42		7	33.7	37.6	33.65	0.34		7	34.02	33.99	+0.03		
116	12-13		7	49.7	53.6	49.65	0.42		7	49.8	53.6	49.70	0.35		7	50.07	50.05	+0.02		
117	11-12		7	55.5	59.6	55.55	0.41		7	55.6	59.7	55.65	0.33		7	55.96	55.98	-0.02		
118	12-13		8	8.4	12.2	8.30	0.42		8	8.6	12.5	8.55	0.34		8	8.72	8.89	-0.17		
119	12		8	14.5	18.4	14.45	0.42		8	14.7	18.7	14.70	0.34		8	14.87	15.04	-0.17		
120	11		8	22.3	26.2	22.25	0.41		.....	.....	.....	.....	.....		8	22.66	.....	.....
121	12		8	40.5	44.5	40.50	0.41		8	.....	44.6	40.60	0.34		8	40.91	40.94	-0.03	
122	12-13		9	9.5	.....	9.50	0.41		9	9.6	13.4	9.50	0.33		9	9.91	9.83	+0.08	
123	12-13		9	13.4	17.3	13.35	0.41		9	.....	17.3	13.30	0.33		9	13.76	13.63	+0.13	
124	10-11		9	38.7	42.7	38.70	0.40		9	38.8	42.8	38.80	0.33		9	39.10	39.13	-0.03		
125	11		9	51.9	.....	51.90	0.41		.....	.....	.....	.....	.....		9	52.31	.....	.....
126	10		10	11.3	15.4	11.35	0.41		10	.....	15.3	11.30	0.33		10	11.76	11.63	+0.13	
127	12		10	17.8	21.6	17.70	0.40		.....	.....	.....	.....	.....		10	18.10	.....	.....
128	10-11		10	44.6	48.8	44.70	0.40		10	44.8	48.8	44.80	0.32		10	45.10	45.12	-0.02		
129	13		10	46.1	50.0	46.05	0.40		.....	.....	.....	.....	.....		10	46.45	.....	.....
130	12-13		12	1.8	6.1	1.95	0.40		.....	.....	.....	.....	.....		12	2.35	.....	.....
131	12		12	2.7	6.6	2.65	0.40		12	2.6	6.5	2.55	0.32		12	3.05	2.87	+0.18		
132	12		12	5.4	9.4	5.40	0.39		.....	.....	.....	.....	.....		12	5.79	.....	.....
133	12-13		12	54.6	58.4	54.50	0.39		.....	.....	.....	.....	.....		12	54.89	.....	.....
134	13		13	0.0	4.1	0.05	0.38		.....	.....	.....	.....	.....		13	0.43	.....	.....
135	12	21	13	20.3	24.3	20.30	+0.39	21	13	20.7	.....	20.70	+0.31	21	13	20.69	21.01	-0.32	

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 143.	d.	Zone 144.	d.	Zone 143.	Zone 144.		
91	+ 9 59	+12.0	+10 9	- 1.8	+ 1° 0' 11.0	7.2	+ 3.8	
92	9 39	11.9	9 50	1.8	0 59 50.9	48.2	+ 2.7	
93	4 47	11.4	....	...	0 54 58.4	....	...
94	6 9	11.2	6 19	1.5	0 56 20.2	20.5	- 0.3	
95	6 51	11.2	7 4	1.6	0 57 2.2	2.4	- 0.2	
96	6 1	11.2	6 16	1.5	0 56 12.2	14.5	- 2.3	
97	4 0	11.4	4 13	1.3	0 54 11.4	11.7	- 0.3	
98	6 46	11.0	6 58	1.7	0 56 57.0	56.3	+ 0.7	
99	5 56	11.1	6 9	1.6	0 56 7.1	7.4	- 0.3	
100	7 50	11.0	8 3	1.9	0 58 1.0	1.1	- 0.1	
101	10 11	10.6	10 26	2.2	1 0 21.6	23.8	- 2.2	
102	9 10	10.6	....	...	0 59 20.6	....	...
103	9 53	10.5	9 57	2.2	0 59 63.5	....	...
104	4 14	11.2	....	...	0 54 25.2	....	...
105	3 45	11.2	3 59	1.6	0 53 56.2	57.4	- 1.2	
106	4 23	11.1	....	...	0 54 34.1	....	...
107	1 53	11.4	2 8	1.4	0 52 4.4	6.6	- 2.2	
108	2 11	11.3	....	...	0 52 22.3	....	...
109	7 13	10.6	7 27	2.2	0 57 23.6	24.8	- 1.2	Declination doubtful zone 144.
110	0 39	11.4	0 50	1.4	0 50 50.4	48.6	+ 1.8	Comp., n. f. 24".
111	9 51	10.2	10 7	2.7	1 0 1.2	4.3	- 3.1	
112	9 33	10.2	....	...	0 59 43.2	....	...
113	9 20	10.2	9 30	2.6	0 59 30.2	27.4	+ 2.8	
114	4 48	10.7	5 1	2.2	0 54 58.7	58.8	- 0.1	
115	5 18	10.6	5 30	2.3	0 55 28.6	27.7	+ 0.9	
116	+ 9 51	10.0	10 5	2.9	1 0 1.0	2.1	- 1.1	
117	- 0 1	11.2	0 9	1.7	0 50 10.2	7.3	+ 2.9	
118	+ 7 48	10.2	8 2	2.7	0 57 58.2	59.3	- 1.1	
119	6 21	10.4	6 35	2.5	0 56 31.4	32.5	- 1.1	
120	0 51	11.0	1 3	1.8	0 51 2.0	1.2	+ 0.8	
121	7 19	10.2	7 33	2.7	0 57 29.2	30.3	- 1.1	
122	5 41	10.5	5 55	2.5	0 55 51.5	52.5	- 1.0	
123	4 21	10.6	4 33	2.4	0 54 31.6	30.6	+ 1.0	
124	2 34	10.7	2 47	2.3	0 52 44.7	44.7	0.0	Reddish.
125	10 40	9.7	....	...	1 0 49.7	....	...	Declination doubtful.
126	9 50	9.8	9 35	3.1	0 59 59.8	31.9	...	
127	2 30	10.7	....	...	0 52 40.7	....	...
128	2 51	10.6	3 4	2.3	0 53 1.6	1.7	- 0.1	
129	7 22	10.0	....	...	0 57 32.0	....	...	Seen in zone 144, but not observed.
130	8 35	9.8	8 50	3.2	0 58 44.8	46.8	- 2.0	
131	7 28	9.9	....	...	0 57 37.9	....	...
132	0 41	10.7	0 55	2.2	0 50 51.7	52.8	- 1.1	
133	9 1	9.7	9 13	2.3	0 59 10.7	10.7	0.0	
134	2 32	10.4	2 45	2.6	0 52 42.4	42.4	0.0	
135	+ 9 54	+ 9.5	+ 9 59	- 3.5	+ 0 59 63.5	55.5	...	

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 143.				ZONE 144.				MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 143.	Zone 144.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
136	10-11	21 13 26.4	30.2	26.30	+0.39	21 13 26.5	30.5	26.50	+0.31	21 13 26.69	26.81	-0.12
137	10-11	13 32.8	36.7	32.75	0.38	.....	.....	.....	.....	13 33.13	.....	.....
138	12-13	13 42.7	46.6	42.65	0.39	.....	.....	.....	.....	13 43.04	.....	.....
139	12-13	14 13.3	17.1	13.20	0.37	14	17.5	13.50	0.29	14 13.57	13.79	-0.22
140	12	14 23.0	27.0	23.00	0.38	.....	.....	.....	.....	14 23.38	.....	.....
141	11-12	14 31.1	35.2	31.15	0.38	14	35.0	31.00	0.30	14 31.53	31.30	+0.23
142	13	14 44.7	48.5	44.60	0.38	.....	.....	.....	.....	14 44.98	.....	.....
143	11-12	15 35.8	39.8	35.80	0.38	15 35.8	39.9	35.85	0.30	15 36.18	36.15	+0.03
144	11-13	15 41.5	45.7	41.60	0.38	15 41.6	45.7	41.65	0.30	15 41.98	41.95	+0.03
145	12-13	16 3.2	7.0	3.10	0.37	16 3.1	7.0	3.05	0.29	16 3.47	3.34	+0.13
146	12-13	16 11.7	15.7	11.70	0.37	16 11.7	15.7	11.70	0.29	16 12.07	11.99	+0.08
147	12-13	16 39.0	43.0	39.00	0.37	16 39.2	43.0	39.10	0.29	16 39.37	39.39	-0.02
148	12-13	16 47.0	.....	47.00	0.36	16 47.0	51.0	47.00	0.28	16 47.36	47.28	+0.08
149	11	17 3.8	.....	3.80	0.37	17 3.9	7.7	3.80	0.29	17 4.17	4.09	+0.08
150	13	17 32.3	36.4	32.35	0.36	.....	.....	.....	.....	17 32.71	.....	.....
151	12	17 45.3	49.3	45.30	0.36	.....	.....	.....	.....	17 45.66	.....	.....
152	12-13	18 23.4	27.3	23.35	0.35	18 23.6	.....	23.60	0.27	18 23.70	23.87	-0.17
153	13	18 38.7	42.5	38.60	0.35	18 38.8	42.8	38.80	0.28	18 38.95	39.08	-0.13
154	12	19 21.6	25.7	21.65	0.35	19 21.8	25.8	21.80	0.27	19 22.00	22.07	-0.07
155	12-13	21 35.2	39.0	35.10	0.34	.....	.....	.....	.....	21 35.44	.....	.....
156	12-13	21 43.3	47.1	43.20	0.33	21 43.2	47.1	43.15	0.25	21 43.53	43.40	+0.13
157	12	21 48.7	52.7	48.70	0.34	21 48.8	52.7	48.75	0.26	21 49.04	49.01	+0.03
158	12	22 2.5	6.7	2.60	0.33	22 2.7	6.8	2.75	0.25	22 2.93	3.00	-0.07
159	11-12	22 29.2	33.2	29.20	0.33	22 29.3	33.2	29.25	0.24	22 29.53	29.49	+0.04
160	....	.....	.....	.....	.....	22 41.0	45.0	41.00	0.25	22	41.25	.....
161	12	22 46.4	50.3	46.35	0.33	.....	.....	.....	.....	22 46.68	.....	.....
162	....	23 20.1	24.0	20.05	0.33	.....	.....	.....	.....	23 20.38	.....	.....
163	....	23 55.6	59.6	55.60	0.33	.....	.....	.....	.....	23 55.93	.....	.....
164	....	23 56.9	61.0	56.95	0.32	.....	.....	.....	.....	23 57.27	.....	.....
165	10	26 26.1	30.1	26.10	0.32	26 26.2	30.2	26.20	0.22	26 26.42	26.42	0.00
166	11	26 44.3	48.2	44.25	0.31	26 44.3	48.4	44.35	0.21	26 44.56	44.56	0.00
167	12-13	26 49.3	53.2	49.25	0.31	26 49.4	53.5	49.45	0.21	26 49.56	49.66	-0.10
168	13-14	27 39.5	43.5	39.50	0.31	27	43.9	39.90	0.22	27 39.81	40.12	-0.31
169	12-13	28	10.7	6.70	0.30	.....	.....	.....	.....	28 7.00	.....	.....
170	12-13	28 14.8	18.8	14.80	0.30	28 15.1	19.2	15.15	0.20	28 15.10	15.35	-0.25
171	....	28 17.3	21.1	17.20	0.30	28 17.3	21.4	17.35	0.21	28 17.50	17.56	-0.06
172	12-13	28	36.2	32.20	0.30	28	36.4	32.40	0.21	28 32.50	32.61	-0.11
173	....	29 14.0	18.0	14.00	0.30	29 14.3	18.2	14.25	0.20	29 14.30	14.45	-0.15
174	....	29 16.2	20.1	16.15	0.30	29 16.3	20.3	16.30	0.20	29 16.45	16.50	-0.05
175	12-13	29 23.3	27.3	23.30	0.30	.....	.....	.....	0.20	29 23.60	.....	.....
176	11-13	29 28.3	32.1	28.20	0.29	29 28.4	32.4	28.40	0.19	29 28.49	28.59	-0.10
177	12-13	30 10.6	14.0	10.30	0.29	.....	.....	.....	.....	30 10.59	.....	.....
178	12-13	30 21.0	25.0	21.00	0.29	.....	.....	.....	.....	30 21.29	.....	.....
179	12	30 31.5	35.4	31.45	0.29	21 30 31.4	35.3	31.35	+0.19	30 31.74	31.54	+0.20
180	13	21 31 14.3	18.4	14.35	+0.29	.....	.....	.....	.....	21 31 14.64	.....	.....

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 142.	d.	Zone 144.	d.	Zone 142.	Zone 144.		
136	+ 7 3	+ 9.9	+ 7 18	- 3.1	+ 0 57 12.9	14.9	- 2.2	
137	0 59	10.6	....	...	0 51 9.6	....	...
138	+ 6 30	9.9	....	...	0 56 39.9	....	...
139	- 0 20	10.7	- 0 11	2.3	0 49 50.7	46.3	+ 4.4	
140	+ 4 49	10.0	+ 5 8	3.0	0 54 59.0	65.0	- 6.0	
141	7 41	9.5	7 56	3.4	0 57 50.5	52.6	- 2.1	
142	8 31	9.6	....	...	0 58 40.6	....	...	Seen in zone 144, but not observed.
143	3 5	10.1	3 18	2.9	0 53 15.1	15.1	0.0	
144	9 9	9.4	9 20	3.6	0 59 18.4	16.4	+ 2.0	
145	9 2	9.4	9 16	3.7	0 59 11.4	12.3	- 0.9	
146	9 28	9.3	9 39	3.8	0 59 37.3	35.2	+ 2.1	
147	6 54	9.7	7 10	3.5	0 57 3.7	6.5	- 2.8	
148	4 40	9.8	4 54	3.2	0 54 49.8	50.8	- 1.0	
149	9 57	9.2	10 9	3.9	0 50 6.2	5.1	+ 1.1	
150	4 24	9.8	....	...	0 54 33.8	....	...	Declination doubtful.
151	+ 6 6	9.6	6 20	3.5	0 56 15.6	16.5	- 0.9	
152	- 0 7	10.3	0 2	2.8	0 49 63.3	59.2	+ 4.1	
153	+ 6 38	9.4	6 49	3.7	0 56 47.4	45.3	+ 2.1	
154	4 8	9.7	4 21	3.5	0 54 17.7	17.5	+ 0.2	Seen in zone 144, but not observed.
155	10 18	8.7	....	...	1 0 26.7	....	...	No stars above 14th mag.
156	1 19	9.8	1 29	3.4	0 51 28.8	25.6	+ 3.2	
157	8 6	9.0	8 20	4.2	0 58 15.0	15.8	- 0.8	Comp., s. f. 20". 14th mag.
158	4 12	9.4	4 34	3.8	0 54 21.4	30.2	- 8.8	
159	0 8	9.9	0 19	3.3	0 50 17.9	15.7	+ 2.2	
160	....	....	9 ..	...	0 59 ....	....	...
161	1 21	9.7	....	...	0 51 30.7	....	...
162	5 11	9.2	....	...	0 55 20.2	....	...
163	5 41	9.1	....	...	0 55 50.1	....	...
164	4 29	9.2	....	...	0 54 38.2	....	...
165	+ 8 33	8.5	8 45	4.7	0 58 41.5	40.3	+ 1.2	
166	- 0 5	9.5	0 7	3.8	0 50 4.5	3.2	+ 1.3	
167	- 0 1	9.5	0 10	3.8	0 50 8.5	6.2	+ 2.3	
168	+ 8 27	8.4	8 39	4.9	0 58 35.4	34.1	+ 1.3	
169	0 13	9.3	....	...	0 50 22.3	....	...
170	1 33	9.2	1 54	4.1	0 51 42.2	49.9	- 7.7	
171	....	....	4 5	4.4	0 54	0.6	...	Declination doubtful.
172	4 42	8.8	4 58	4.5	0 54 50.8	53.5	- 2.7	
173	....	....	7 10	4.9	0 57	5.1	...	
174	....	....	6 3	4.7	0 55	58.3	...	
175	8 19	8.3	....	5.1	0 58 27.3	....	...
176	1 33	9.1	1 44	4.2	0 51 42.1	39.8	+ 2.3	
177	+ 4 0	8.7	....	...	0 54 8.7	....	...
178	- 0 27	9.2	....	...	0 49 42.2	....	...	Looked for, but not seen in zone 144.
179	+ 7 23	8.3	+ 7 16	- 5.0	0 57 31.3	11.0	+20.3	
180	+ 5 31	+ 8.5	....	...	+ 0 55 39.5	....	...

A.R. ^{h.}20 ^{m.}27 to ^{h.}23 ^{m.}31.Dec. +^o50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 143.					ZONE 144.					MEAN RIGHT ASCENSION. 1859.0					Difference.	
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 143.		Zone 144.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	s.				
181	13	21	31	17.7	21.5	17.60	+0.29	21	31	35.5	39.4	35.45	+0.18	21	31	17.89	.....	.....
182	12		31	35.3	39.3	35.30	0.28		31	35.5	39.4	35.45	+0.18		31	35.58	35.63	-0.05
183	11-12		32	3.1	7.1	3.10	0.28		32	3.4	7.2	3.30	0.18		32	3.38	3.48	-0.10
184	12		33	1.1	5.3	1.20	0.28		33	1.4	5.5	1.45	0.18		33	1.48	1.63	-0.15
185	12-13		33	19.4	23.5	19.45	0.28		.....	.....	.....	.....			33	19.73	.....	.....
186	13		34	33.2	37.3	33.25	0.28		.....	.....	.....	.....			34	33.53	.....	.....
187	11-12		34	43.5	47.3	43.40	0.27		34	43.6	47.6	43.60	0.17		34	43.67	43.77	-0.10
188	12-13		34	51.3	55.2	51.25	0.27		.....	.....	.....	.....			34	51.52	.....	.....
189	11-12		36	51.6	55.7	51.65	0.26		36	51.8	55.5	51.65	0.15		36	51.80	51.80	0.00
190	12		37	44.7	48.4	44.55	0.26		37	44.7	48.6	44.65	0.15		37	44.81	44.80	+0.01
191	12		38	52.2	56.3	52.25	0.26		.....	.....	.....	.....			38	52.51	.....	.....
192	11-12		39	5.1	9.1	5.10	0.25		39	5.4	9.3	5.35	0.14		39	5.35	5.49	-0.14
193	12		39	39.3	43.1	39.20	0.25		39	39.2	43.3	39.25	0.13		39	39.45	39.38	+0.07
194	12-13		40	15.3	19.0	15.15	0.25		.....	.....	.....	.....			40	15.40	.....	.....
195	12-13		40	17.3	21.3	17.30	0.25		40	17.8	21.7	17.75	0.13		40	17.55	17.88	-0.33
196	11-12		42	33.6	37.7	33.65	0.23		42	33.9	37.8	33.85	0.11		42	33.88	33.96	-0.08
197	13		42	58.7	62.7	58.70	0.23		.....	.....	.....	.....			42	58.93	.....	.....
198	13		43	....	4.4	0.40	0.23		.....	.....	.....	.....			43	0.63	.....	.....
199	12-13		43	37.8	41.9	37.85	0.23		43	38.1	42.0	38.05	0.10		43	38.08	38.15	-0.07
200	12		43	45.1	48.9	45.00	0.23		.....	.....	.....	.....			43	45.23	.....	.....
201	....		43	....	58.9	54.90	0.22		43	55.1	59.0	55.05	0.10		43	55.12	55.15	-0.03
202	....		44	0.3	4.4	0.35	0.22		44	0.5	4.5	0.50	0.10		44	0.57	0.60	-0.03
203	12-13		44	52.0	55.9	51.95	0.22		44	52.1	56.3	52.20	0.10		44	52.17	52.30	-0.13
204	12-13		45	28.9	33.0	28.95	0.22		45	29.1	32.8	28.95	0.09		45	29.17	29.04	+0.13
205	12-13		45	29.8	33.7	29.75	0.21		45	29.9	33.7	29.80	0.09		45	29.96	29.89	+0.07
206	13		46	55.1	58.9	55.00	0.21		46	55.3	59.2	55.25	0.08		46	55.21	55.33	-0.12
207	12-13		47	....	22.9	18.90	0.20		47	19.2	23.1	19.15	0.08		47	19.10	19.23	-0.13
208	13		47	29.1	32.7	28.90	0.21		47	....	33.0	29.00	0.08		47	29.11	29.08	+0.03
209	12-13		48	16.1	19.8	15.90	0.21		48	16.1	20.0	16.05	0.08		48	16.11	16.13	-0.02
210	12-13		49	24.1	28.0	24.05	0.20		49	24.1	28.0	24.05	0.07		49	24.25	24.12	+0.13
211	12-13		49	40.9	44.8	40.85	0.20		49	41.0	44.9	40.95	0.07		49	41.05	41.02	+0.03
212	12-13		49	51.3	55.3	51.30	0.20		49	51.5	55.4	51.45	0.07		49	51.50	51.52	-0.02
213	12-13		50	26.1	30.0	26.05	0.20		50	26.2	30.4	26.30	0.06		50	26.25	26.36	-0.11
214	13		50	59.0	62.8	58.90	0.19		50	59.2	63.2	59.20	0.06		50	59.09	59.26	-0.17
215	13		51	2.0	....	2.00	0.19		51	....	6.0	2.00	0.06		51	2.19	2.06	+0.13
216	12		51	31.8	35.8	31.80	0.19		51	....	36.0	32.00	0.06		51	31.99	32.06	-0.07
217	12		51	34.8	38.8	34.80	0.18		51	....	38.8	34.80	0.05		51	34.98	34.85	+0.13
218	12-13		.....	.....	.....	.....	.....		52	20.2	24.0	20.10	0.05		52	.....	20.15	.....
219	12-13		52	26.7	30.6	26.65	0.19		.....	.....	.....	.....			52	26.84	.....	.....
220	12-13		52	48.4	52.3	48.35	0.18		.....	.....	.....	.....			52	48.53	.....	.....
221	13		52	59.8	....	59.80	0.17		.....	.....	.....	.....			52	59.97	.....	.....
222	12-13		53	12.0	15.9	11.95	0.18		53	12.2	16.1	12.15	0.04		53	12.13	12.19	-0.06
223	12		53	23.3	27.2	23.25	0.18		53	23.3	27.3	23.30	0.04		53	23.43	23.34	+0.09
224	11-13		54	30.6	34.3	30.45	0.17		54	30.8	34.8	30.80	0.04		54	30.62	30.84	-0.22
225	12-13	21	55	16.2	20.1	16.15	+0.17	21	55	16.3	20.3	16.30	+0.03	21	55	16.32	16.33	-0.01

A.R. ^{h.} 20 ^{m.} 27 to ^{h.} 22 ^{m.} 31.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 143.	d.	Zone 144.	d.	Zone 143.	Zone 144.		
181	+ 7 41	+ 8.2	....	..	+ 0 57 49.2	....	..
182	1 18	8.9	+ 2 13	- 4.6	0 51 9.1	8.4	+ 0.7	Hazy, or passing clouds.
183	4 34	8.5	....	..	0 54 42.5	....	..
184	7 4	8.1	....	..	0 57 12.1	....	..
185	6 12	8.2	....	..	0 56 20.2	....	..	No stars above 14th mag.
186	8 5	7.8	....	..	0 58 12.8	....	..	Comp., s. p., 25". 14th mag.
187	2 0	8.5	....	..	0 52 8.5	....	..	{ Hazy in both zones, magnitudes be-
188	9 12	7.7	....	..	0 59 19.7	....	..	{ coming smaller.
189	9 30	7.4	9 45	6.0	0 59 37.4	39.0	- 1.6	
190	6 40	7.7	6 51	5.8	0 56 47.7	45.2	+ 2.5	
191	10 32	7.1	....	..	1 0 39.1	....	..
192	8 51	7.4	....	..	0 58 58.4	....	..
193	4 30	7.8	4 42	5.7	0 54 37.8	36.3	+ 1.5	
194	9 10	7.2	....	..	0 59 17.2	....	..
195	6 59	7.4	7 14	6.1	0 57 6.4	7.9	- 1.5	No stars above 15th mag.
196	0 10	8.0	0 22	5.5	0 50 18.0	16.5	+ 1.5	
197	0 31	7.9	....	..	0 50 38.9	....	..
198	5 ..	7.4	....	..	0 55 7.4	....	..
199	4 49	7.4	5 3	6.2	0 54 56.4	56.8	- 0.4	
200	8 ..	7.0	....	..	0 58 ....	....	..
201	0 8	7.9	0 26	5.7	0 50 15.9	20.3	- 4.4	
202	....	..	2 25	5.9	0 52 ....	....	..
203	7 32	6.9	7 47	6.7	0 57 38.9	40.3	- 1.4	
204	+ 2 41	7.3	2 55	6.2	0 52 48.3	48.8	- 0.5	
205	- 0 7	7.8	0 8	5.8	0 49 0.8	2.2	- 1.4	Starless field.
206	+ 1 30	7.4	1 43	6.2	0 51 37.4	36.8	+ 0.6	
207	0 3	7.6	0 15	6.0	0 50 10.6	9.0	+ 1.6	
208	5 28	6.9	5 50	6.6	0 55 34.9	43.4	..	Comp., f., 20".
209	9 51	6.3	10 8	7.3	0 59 57.3	60.7	- 3.4	
210	3 41	6.9	3 55	6.7	0 53 47.9	48.3	- 0.4	
211	9 49	6.1	10 3	7.5	0 59 55.1	55.5	- 0.4	
212	9 44	6.1	10 0	7.5	0 59 50.1	52.5	- 2.4	
213	8 45	6.2	8 59	7.4	0 58 51.2	51.6	- 0.4	
214	6 53	6.4	7 9	7.3	0 56 59.4	61.7	- 2.3	Distant comp., f.
215	3 46	6.8	4 0	6.9	0 53 52.8	53.1	- 0.3	
216	9 22	6.0	9 40	7.6	0 59 28.0	32.4	- 4.4	
217	3 29	6.7	3 44	7.0	0 53 35.7	37.0	- 1.3	
218	2 30	6.7	....	..	0 52 36.7	....	..
219	9 34	5.9	....	..	0 59 39.9	....	..
220	2 40	6.6	....	..	0 52 46.6	....	..	Declination doubtful.
221	2 58	6.7	....	..	0 53 4.7	....	..
222	3 27	6.6	....	..	0 53 33.6	....	..
223	7 41	6.1	....	..	0 57 47.1	....	..
224	7 19	6.0	7 29	7.7	0 57 25.0	21.3	+ 3.7	
225	+ 6 16	+ 6.1	+ 6 30	- 7.7	+ 0 56 22.1	22.3	- 0.2	

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.Dec. +⁰50 to ¹0.

Number of the Star.	Magnitude.	ZONE 143.					ZONE 144.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 143.	Zone 144.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
226	12-13	21 55 54.3	58.3	54.30	+0.16		21 55 54.5	58.4	54.45	+0.02		21 55 54.46	54.47	-0.01
227	12	56 17.4	21.2	17.30	0.16		56 17.5	21.3	17.40	0.02		56 17.46	17.42	+0.04
228	12-13	57 34.3	38.4	34.35	0.15		57 34.4	....	34.40	0.02		57 34.50	34.42	+0.08
229	11-12	58 1.7	5.7	1.70	0.15		58 1.7	5.8	1.75	+0.01		58 1.85	1.76	+0.09
230	12	58 13.4	17.4	13.40	0.14		58 13.4	17.5	13.45	0.00		58 13.54	13.45	+0.09
231	12	21 58 32.6	36.5	32.55	0.14		21 58 32.6	36.7	32.75	0.00		21 58 32.69	32.75	-0.06
232	12-13	22 1 44.9	49.0	44.95	0.13		22 1 45.2	49.1	45.15	-0.01		22 1 45.08	45.14	-0.06
233	12-13	1 57.0	60.8	56.90	0.13		1 56.9	60.9	56.90	0.02		1 57.03	56.88	+0.15
234	12	1 59.1	63.0	59.05	0.12		1 59.2	63.0	59.10	0.02		1 59.17	59.08	+0.09
235	10-11	2 11.3	15.2	11.25	0.13		2 11.3	15.2	11.25	0.02		2 11.38	11.23	+0.15
236	11-12	2 14.0	18.1	14.05	0.13		2 14.3	18.1	14.20	0.02		2 14.18	14.18	0.00
237	12-13	3 6.3	10.2	6.25	0.12		3 6.6	10.7	6.65	0.02		3 6.37	6.63	-0.26
238	11-12	6 38.9	42.6	38.85	0.10		6 39.0	43.0	39.00	0.05		6 38.95	38.95	0.00
239	12-13	8	9.8	5.80	0.10		8 6.0	9.9	5.95	0.06		8 5.90	5.89	+0.01
240	11-12	8 11.2	15.1	11.15	0.09		8 11.2	15.2	11.20	0.06		8 11.24	11.14	+0.10
241	12	10 36.8	40.9	36.85	0.08		10 36.9	40.8	36.85	0.08		10 36.99	36.77	+0.16
242	13	10 55.0	58.8	54.90	0.08		10 54.8	58.7	54.75	0.08		10 54.98	54.67	+0.31
243	11-12	10 57.2	61.2	57.20	0.08		10 57.3	61.3	57.30	0.08		10 57.28	57.22	+0.06
244	12-13	12 5.7	9.7	5.70	0.07		12 5.6	9.9	5.75	0.09		12 5.77	5.66	+0.11
245	12-13	12 8.9	12.7	8.80	0.07		12 8.9	12.7	8.80	0.09		12 8.87	8.71	+0.16
246	12	12 25.1	29.0	25.05	0.08		12 25.1	29.1	25.10	0.09		12 25.13	25.01	+0.12
247	11-12	13 6.9	11.0	6.95	0.07		13 6.9	10.8	6.85	0.10		13 7.02	6.75	+0.27
248	13	13 14.1	18.0	14.05	0.07		13 14.0	17.9	13.95	0.09		13 14.12	13.86	+0.26
249	11-12	13 25.9	29.5	25.70	0.07		13 26.1	....	26.10	0.09		13 25.77	26.01	-0.24
250	12	13 34.3	38.3	34.30	0.07		13 34.4	38.2	34.30	0.09		13 34.37	34.21	+0.16
251	12-13	13 53.4	57.5	53.45	0.06		13 53.2	57.4	53.30	0.10		13 53.51	53.20	+0.31
252	11-12	14 59.0	62.8	58.90	0.06		14 59.2	63.2	59.20	0.10		14 58.96	59.10	-0.14
253	12	15 0.7	4.7	0.70	0.06		15 0.8	4.9	0.85	0.11		15 0.76	0.74	+0.02
254	13	15 21.9	25.7	21.80	0.06		15 21.8	25.7	21.75	0.11		15 21.86	21.64	+0.22
255	13	15 27.8	31.9	27.85	0.05		15 27.9	32.1	28.00	0.11		15 27.90	27.89	+0.01
256	....	.....	.....	.....	.....		16 4.6	8.4	4.50	0.11		16	4.39	....
257	12-13	18 49.0	52.9	48.95	0.04		18 49.2	53.0	49.10	0.12		18 48.99	48.98	+0.01
258	12-13	20	40.0	36.00	0.04		20 35.8	39.9	35.85	0.13		20 36.04	35.72	+0.32
259	11-12	20 37.9	41.9	37.90	0.04		20 38.1	42.0	38.05	0.14		20 37.94	37.91	+0.03
260	12-13	21 53.0	56.9	52.95	0.03		21 53.4	57.1	53.25	0.14		21 52.98	53.11	-0.13
261	12-13	21 53.8	57.7	53.75	0.03		21 54.2	58.0	54.10	0.15		21 53.78	53.95	-0.17
262	12	22 39.4	43.4	39.40	0.02		22 39.5	43.5	39.50	0.15		22 39.42	39.35	+0.07
263	11-12	23 34.7	38.7	34.70	0.02		23 35.0	39.0	35.00	0.15		23 34.72	34.85	-0.13
264	13	24	26.4	22.40	0.00		24 22.6	26.4	22.50	0.17		24 22.40	22.33	+0.07
265	13	24	30.0	26.00	0.01		.....	.....	.....	.....		24 26.01	.....	....
266	10-11	25 20.4	24.5	20.45	0.00		25 20.7	24.6	20.65	0.18		25 20.45	20.47	-0.02
267	13-14	25 49.8	53.9	49.85	0.00		25 50.0	53.9	49.95	0.18		25 49.85	49.77	+0.08
268	14	27 8.2	12.4	8.30	0.02		.....	.....	.....	.....		27 8.32	.....	....
269	13	27 24.8	28.6	24.70	0.02		27 25.1	28.8	24.95	0.18		27 24.72	24.77	-0.05
270	12-13	22 27 41.3	45.3	41.30	+0.02		22 27 41.6	45.6	41 60	-0.19		22 27 41.32	41.41	-0.09

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 143.	d.	Zone 144.	d.	Zone 143.	Zone 144.		
226	+ 9 11	+ 5.7	+ 9 11	- 8.1	+ 0 59 6.7	2.9	+ 3.8	
227	5 0	6.1	5 13	7.6	0 55 6.1	5.4	+ 0.7	
228	9 21	5.5	9 35	8.3	0 59 26.5	26.7	- 0.2	
229	+ 5 36	5.9	+ 5 50	7.9	0 55 41.9	42.1	- 0.2	
230	- 0 22	6.6	- 0 10	7.1	0 49 44.6	42.9	+ 1.7	
231	+ 1 23	6.4	+ 1 36	7.4	0 51 29.4	28.6	+ 0.8	
232	6 0	5.5	6 16	8.4	0 56 5.5	7.6	- 2.1	
233	5 45	5.5	5 1	8.2	0 55 50.5	52.8	- 2.3	
234	3 50	5.8	4 3	8.1	0 53 55.8	54.9	+ 0.9	
235	5 51	5.5	6 3	8.4	0 55 56.5	54.6	+ 1.9	
236	6 57	5.4	7 9	8.5	0 57 2.4	0.5	+ 1.9	
237	6 6	5.4	6 20	8.5	0 56 11.4	11.5	- 0.1	Comp., n. f., 22". 14th mag.
238	4 29	5.3	4 53	8.7	0 54 34.3	44.3	...	Elongated, s. f.
239	8 0	4.7	8 13	9.3	0 58 4.7	3.7	+ 1.0	
240	3 27	5.2	3 40	8.7	0 53 32.2	31.3	+ 0.9	Hazy in zone 143.
241	0 0	5.4	0 14	8.6	0 50 5.4	5.4	0.0	
242	5 9	4.8	5 21	9.3	0 55 13.8	11.7	+ 2.1	
243	5 58	4.7	6 11	9.4	0 56 2.7	1.6	+ 1.1	
244	1 59	5.1	2 11	9.0	0 52 4.1	2.0	+ 2.1	
245	1 3	5.2	1 17	8.9	0 51 8.2	8.1	+ 0.1	
246	7 2	4.4	7 17	9.6	0 57 6.4	7.4	- 1.0	
247	1 33	5.0	1 48	9.1	0 51 38.0	38.9	- 0.9	
248	6 58	4.4	7 14	9.7	0 57 2.4	4.3	- 1.9	
249	9 58	4.0	10 8	0.2	1 59 62.0	57.8	+ 4.2	
250	8 1	4.2	8 9	9.9	0 57 65.2	59.1	+ 6.1	
251	0 13	5.1	0 30	9.0	0 50 18.1	21.0	- 2.9	
252	5 0	4.4	5 12	9.7	0 55 4.4	2.3	+ 2.1	
253	0 51	4.9	1 4	9.2	0 50 55.9	54.8	+ 1.1	
254	+ 3 8	4.6	3 20	9.5	0 53 12.6	10.5	+ 2.1	
255	- 0 6	5.0	0 7	9.1	0 49 59.0	57.9	+ 1.1	
256	....	...	9 40	10.4	0 59	29.6	...	
257	+ 8 48	3.7	9 0	10.5	0 58 51.7	49.5	+ 2.2	
258	10 0	3.4	10 23	10.9	1 0 3.4	12.1	...	
259	6 7	3.8	6 33	10.5	0 56 10.8	22.5	...	
260	9 38	3.3	9 53	11.0	0 59 41.3	42.0	- 0.7	Comp., n. f., 19"
261	7 1	3.6	7 18	10.7	0 57 4.6	7.3	- 2.7	
262	5 50	3.7	6 5	10.6	0 55 53.7	54.4	- 0.7	
263	10 13	3.1	10 27	11.2	1 0 16.1	15.8	+ 0.3	
264	0 22	4.2	0 36	10.1	0 50 26.2	25.9	+ 0.3	
265	10 30	2.9	....	....	1 0 32.9	....	...
266	1 34	3.9	1 48	10.4	0 51 37.9	37.6	+ 0.3	
267	3 58	3.6	4 10	10.7	0 53 61.6	59.3	+ 2.3	
268	3 42	3.5	....	....	0 53 45.5	....	...
269	8 48	2.9	9 9	11.5	0 58 50.9	57.5	- 6.6	Declination doubtful in zone 143.
270	+ 5 9	+ 3.3	+ 5 12	-12.0	+ 0 54 72.3	59.4	...	

ZONE OBSERVATIONS.

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.Dec. +⁰50 to ⁰0.

Number of the Star.	Magnitude.	ZONE 143.					ZONE 144.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 143.	Zone 144.			
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
271	13	22 28 9.0	13.1	9.05	-0.01	22 28 9.2	13.1	9.15	-0.19	22 28 9.04	8.96	+0.08		
272	13	28 19.9	24.0	19.95	0.02	28 20.0	23.9	19.95	0.20	28 19.93	19.75	+0.18		
273	12-13	28	50.4	46.40	0.02	28 46.8	50.4	46.60	0.19	28 46.38	46.48	-0.10		
274	12-13	29 13.4	17.3	13.35	0.02	29 13.5	17.4	13.45	0.20	29 13.33	13.12	+0.21		
275	12-13	29 50.5	54.7	50.60	0.02	29 50.6	54.6	50.60	0.20	29 50.58	50.40	+0.18		
276	13	30 24.4	28.5	24.45	0.02	30 24.8	28.6	24.70	0.20	30 24.43	24.50	-0.07		
277	12-13	31. 13.6	17.7	13.65	0.03	31 14.0	17.8	13.90	0.21	31 13.62	13.68	-0.06		
278	.....	.....	.....	.....	.....	31 45.8	49.6	45.70	0.22	31	45.48	.....	
279	12-13	22 31 48.1	52.2	48.15	-0.03	22 31 48.3	52.3	48.30	-0.21	22 31 48.12	48.09	+0.03		

A.R. ^{h.}20 ^{m.}27 to ^{h.}22 ^{m.}31.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 143.	d.	Zone 144.	d.	Zone 143.	Zone 144.		
271	+ 6 18	+ 3.1	+ 6 24	-11.3	+ 0 56 21.1	12.7	...	
272	2 49	3.5	3 0	10.9	0 52 52.5	49.1	+ 3.4	
273	8 45	2.8	8 58	11.6	0 58 47.8	46.4	+ 1.4	
274	4 58	3.2	5 9	11.2	0 54 61.2	57.8	+ 3.4	
275	7 21	2.8	7 35	11.6	0 57 23.8	23.4	+ 0.4	
276	8 41	2.6	8 57	11.8	0 58 43.6	45.2	- 1.6	
277	3 29	3.2	3 39	11.3	0 53 32.2	27.7	+ 4.5	
278	....	...	2 36	11.2	0 52	24.8	...	
279	+ 5 21	+ 2.9	+ 5 36	-11.6	+ 0 55 23.9	24.4	- 0.5	Declination doubtful in zone 143. Haze gradually became very thick, and the moisture deposited on the ob- ject-glass interfered seriously with both magnitudes and observations.

A.R. $22^{\text{h}} 20^{\text{m}}$ to $0^{\text{h}} 14^{\text{m}}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number of the Star.	Magnitude.	ZONE 145.					ZONE 146.					MEAN RIGHT ASCENSION. 1859.0				Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 145.			Zone 146.	
		h.	m.	s.	s.	s.		h.	m.	s.	s.	s.		h.	m.		s.	s.
1	9	22	20	38.2	42.2	38.20	-0.29	22	20	38.5	42.5	38.50	-0.50	22	20	37.91	38.00	-0.09
2	12		21	....	48.7	44.70	0.31		21	44.9	48.7	44.80	0.51		21	44.39	44.29	+0.10
3	....		21	53.7	57.4	53.55	0.31		....	....	....	....	....		21	53.24	....	....
4	11-12		21	54.6	58.3	54.45	0.31		21	54.6	58.6	54.60	0.51		21	54.14	54.09	+0.05
5	11-12		22	39.9	43.8	39.85	0.32		22	40.1	44.1	40.10	0.52		22	39.53	39.58	-0.05
6	13		23	9.3	13.3	9.30	0.32		23	9.5	13.4	9.45	0.53		23	8.98	8.92	+0.06
7	12		23	21.6	25.7	21.65	0.32		23	21.9	25.9	21.90	0.53		23	21.33	21.37	-0.04
8	8-10		23	35.3	39.2	35.25	0.33		23	35.5	39.4	35.45	0.53		23	34.92	34.92	0.00
9	12-13		24	17.4	21.4	17.40	0.33		24	17.7	21.7	17.70	0.54		24	17.07	17.16	-0.09
10	12		24	22.7	26.8	22.75	0.33		24	23.0	27.0	23.00	0.54		24	22.42	22.46	-0.04
11	9		25	20.8	24.9	20.85	0.34		25	21.0	25.0	21.00	0.55		25	20.55	20.45	+0.10
12	12-13		25	50.1	54.0	50.05	0.35		25	50.4	54.3	50.35	0.55		25	49.70	49.80	-0.10
13	13-14		26	34.6	38.8	34.70	0.35		26	34.6	38.7	34.65	0.56		26	34.35	34.09	+0.26
14	13		27	8.4	12.2	8.30	0.36		27	8.6	12.6	8.60	0.57		27	7.94	8.03	-0.09
15	11-12		27	25.1	29.0	25.05	0.36		27	25.2	29.2	25.20	0.57		27	24.69	24.63	+0.06
16	11-12		27	41.8	45.7	41.75	0.37		27	41.9	46.0	41.95	0.57		27	41.38	41.38	0.00
17	11		28	9.4	13.5	9.45	0.37		28	9.7	13.7	9.70	0.58		28	9.08	9.12	-0.04
18	10-12		28	20.2	24.3	20.25	0.37		28	20.6	24.4	20.50	0.58		28	19.88	19.92	-0.04
19	12-13		28	46.9	51.0	46.95	0.38		28	47.2	51.0	47.10	0.58		28	46.57	46.52	+0.05
20	11-12		29	13.8	17.7	13.75	0.38		29	14.0	18.1	14.05	0.59		29	13.37	13.46	-0.09
21	11-12		29	51.0	54.9	50.95	0.39		29	51.2	55.1	51.15	0.59		29	50.56	50.56	0.00
22	12		29	56.2	60.2	56.20	0.39		29	56.5	60.6	56.55	0.59		29	55.81	55.96	-0.15
23	12		30	24.8	29.0	24.90	0.39		30	25.3	29.3	25.30	0.60		30	24.51	24.70	-0.19
24	12		31	14.2	18.1	14.15	0.40		31	14.3	18.2	14.25	0.61		31	13.75	13.64	+0.11
25	10-11		31	48.5	52.6	48.55	0.41		31	48.8	52.7	48.75	0.61		31	48.14	48.14	0.00
26	12-13		32	35.1	39.0	35.05	0.42		32	35.3	39.3	35.30	0.62		32	34.63	34.68	-0.05
27	12-13		32	56.0	60.0	56.00	0.42		32	56.4	60.4	56.40	0.62		32	55.58	55.78	-0.20
28	12-13		33	8.3	12.3	8.30	0.42		33	....	12.6	8.60	0.63		33	7.88	7.97	-0.09
29	9-10		33	....	42.1	38.10	0.43		33	38.4	42.3	38.35	0.63		33	37.67	37.72	-0.05
30	10-12		33	53.1	57.0	53.05	0.43		33	53.3	57.3	53.30	0.63		33	52.62	52.67	-0.05
31	11-12		35	31.6	35.6	31.60	0.45		35	32.0	....	32.00	0.64		35	31.15	31.36	-0.21
32	12		36	0.4	4.2	0.30	0.46		....	....	....	....	....		35	59.84	....	....
33	10-11		36	37.9	42.0	37.95	0.46		36	38.3	42.3	38.30	0.65		36	37.49	37.65	-0.16
34	10-11		36	49.0	52.8	48.90	0.46		36	49.1	53.3	49.20	0.65		36	48.44	48.55	-0.11
35	10-11		37	....	8.1	4.10	0.47		37	4.6	8.4	4.50	0.66		37	3.63	3.84	-0.21
36	9-10		37	15.8	19.9	15.85	0.47		37	16.0	20.1	16.05	0.66		37	15.38	15.39	-0.01
37	11-12		37	38.9	42.8	38.85	0.47		37	39.1	43.0	39.05	0.66		37	38.38	38.39	-0.01
38	11		37	48.1	52.0	48.05	0.48		37	48.3	52.3	48.30	0.67		37	47.57	47.63	-0.06
39	11-12		38	41.0	44.8	40.90	0.49		38	41.0	44.9	40.95	0.67		38	40.41	40.28	+0.13
40	11-12		39	4.0	4.1	0.10	0.49		39	....	4.2	0.20	0.68		38	59.61	59.52	+0.09
41	10-12		39	8.0	12.0	8.00	0.49		39	8.2	12.2	8.20	0.68		39	7.51	7.52	-0.01
42	12-13		40	21.6	25.4	21.50	0.50		40	22.0	25.8	21.90	0.69		40	20.00	21.21	-0.21
43	12-13		41	12.8	16.6	12.70	0.51		41	13.0	16.9	12.95	0.70		41	12.19	12.25	-0.06
44	12-13		41	35.5	39.6	35.55	0.52		41	35.8	....	35.80	0.71		41	35.03	35.09	-0.06
45	12	22	41	45.2	49.2	45.20	-0.52	22	41	45.3	49.4	45.35	-0.71	22	41	44.68	44.64	+0.04

A.R. ^{h.}22 ^{m.}20 to ^{h.}0 ^{m.}14

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 145.	d.	Zone 146.	d.	Zone 145.	Zone 146.		
1	+ 6 20	- 0.8	+ 6 20	- 0.2	+ 0 56 19.2	19.8	- 0.6	Meteor passing from north to middle of field, where it disappeared. Time (236) 22h. 37m. Duration, .4s. Yellowish-white. Close comp.
2	3 36	0.2	3 35	+ 0.2	0 53 35.8	35.2	+ 0.6	
3	9 ..	...	....	...	0 59 ....	....	...
4	7 4	0.9	7 4	- 0.4	0 57 3.1	3.6	- 0.5	
5	5 51	0.8	5 52	- 0.2	0 55 50.2	51.8	- 1.6	
6	4 35	0.5	4 35	+ 0.1	0 54 34.5	35.1	- 0.6	
7	4 12	0.4	4 12	+ 0.1	0 54 11.6	12.1	- 0.5	
8	10 14	- 1.4	10 14	- 0.9	1 0 12.6	13.1	- 0.5	
9	1 13	+ 0.1	1 11	+ 0.7	0 51 13.1	11.7	+ 1.4	
10	0 27	0.3	0 25	0.8	0 50 27.3	25.8	+ 1.5	
11	1 38	+ 0.1	1 35	0.6	0 51 38.1	35.6	+ 2.5	A trapezium of 4 stars. Comp., n. p. Comp., n., 9"; bluish.
12	4 0	- 0.3	3 59	+ 0.2	0 53 59.7	59.2	+ 0.5	
13	6 1	0.7	6 2	- 0.2	0 56 0.3	1.8	- 1.5	
14	3 47	0.3	3 47	+ 0.2	0 53 46.7	47.2	- 0.5	
15	8 55	1.2	8 59	- 0.7	0 58 53.8	58.3	- 4.5	
16	5 2	0.5	5 1	0.0	0 55 1.5	1.0	+ 0.5	
17	6 21	0.7	6 21	- 0.2	0 56 20.3	20.8	- 0.5	
18	2 49	0.1	2 48	+ 0.4	0 52 48.9	48.4	+ 0.5	
19	8 46	1.1	8 45	- 0.7	0 58 44.9	44.3	+ 0.6	
20	4 59	0.5	4 58	0.0	0 54 58.5	58.0	+ 0.5	
21	7 23	0.8	7 23	0.4	0 57 22.2	22.6	- 0.4	Last obs. for Dec. sure. Field without stars above 15th mag. Lamp interferes with the 9' and 10' wires.
22	5 58	0.6	5 58	0.2	0 55 57.4	57.8	- 0.4	
23	8 43	1.1	8 43	- 0.7	0 58 41.9	42.3	- 0.4	
24	3 28	0.2	3 27	+ 0.3	0 53 27.8	27.3	+ 0.5	
25	5 25	0.5	5 23	- 0.1	0 55 24.5	22.9	+ 1.6	
26	4 28	0.3	4 27	+ 0.1	0 54 27.7	27.1	+ 0.6	
27	4 2	- 0.3	4 12	0.1	0 54 1.7	12.1	...	
28	1 59	+ 0.1	1 59	+ 0.5	0 51 59.1	59.5	- 0.4	
29	+ 6 40	- 0.7	+ 6 40	- 0.3	0 56 39.3	39.7	- 0.4	
30	- 0 17	+ 0.4	- 0 18	+ 1.0	0 49 43.4	43.0	+ 0.4	
31	+ 9 37	- 1.2	+ 9 37	- 0.8	0 59 35.8	36.2	- 0.4	Comp. distant 30". Elongated.
32	8 14	0.9	....	...	0 58 13.1	....	...
33	8 46	1.0	8 46	0.7	0 58 45.0	45.3	- 0.3	
34	7 34	0.8	7 32	0.5	0 57 33.2	31.5	+ 1.7	
35	8 7	0.9	8 7	0.6	0 58 6.1	6.4	- 0.3	
36	7 17	0.8	7 17	0.4	0 57 16.2	16.6	- 0.4	
37	8 37	1.0	8 34	- 0.6	0 58 36.0	33.4	+ 2.6	
38	4 25	0.3	4 26	+ 0.1	0 54 24.7	26.1	- 1.4	
39	6 18	0.6	6 18	- 0.2	0 56 17.4	17.0	- 0.4	
40	3 18	0.1	3 17	+ 0.3	0 53 17.9	17.3	+ 0.6	
41	6 43	0.6	6 42	- 0.3	0 56 42.4	41.7	+ 0.7	
42	+ 7 14	- 0.7	+ 7 13	- 0.4	0 57 13.3	12.6	+ 0.7	
43	- 0 8	+ 0.5	- 0 10	+ 0.9	0 49 52.5	50.9	+ 1.6	
44	- 0 3	0.5	- 0 5	0.9	0 49 57.5	55.9	+ 1.6	
45	+ 1 43	+ 0.2	+ 1 41	+ 0.6	+ 0 51 43.2	41.6	+ 1.6	

A.R. ^{h.}23 ^{m.}20 to ^{h.}0 ^{m.}14.

Dec. +0 50 to 1 6.

Number of the Star.	Magnitude.	ZONE 145.					ZONE 146.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 145.		Zone 146.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	
46	12	22 41 46.2	50.1	46.15	-0.52		22 41 46.4	50.3	46.35	-0.71		22 41 45.63	45.64	-0.01	
47	12	42 7.9	11.8	7.85	0.52		.....	.....	.....	.....		42 7.33	.....	.....
48	11-12	43 53.8	57.7	53.75	0.54		.....	.....	.....	.....		43 53.21	.....	.....
49	11-12	43 58.7	62.5	58.60	0.54		43 58.8	62.9	58.85	0.73		43 58.06	58.12	-0.06	
50	10-12	45 18.7	22.7	18.70	0.56		45 18.9	22.8	18.85	0.74		45 18.14	18.11	+0.03	
51	10-11	45 25.4	29.4	25.40	0.56		45 25.6	29.6	25.60	0.74		45 24.84	24.86	-0.02	
52	10-11	45 36.8	40.9	36.85	0.56		45 37.0	41.0	37.00	0.75		45 36.29	36.25	+0.04	
53	13	46 18.9	23.0	18.95	0.57		46 19.4	23.2	19.30	0.75		46 18.38	18.55	-0.17	
54	12-13	47 27.9	32.0	27.95	0.58		.....	.....	.....	.....		47 27.37	.....	.....
55	12-13	47 42.8	47.0	42.90	0.58		47 43.0	46.9	42.95	0.77		47 42.32	42.18	+0.14	
56	12-13	48 21.2	25.2	21.20	0.59		48 21.4	25.3	21.35	0.77		48 20.61	20.58	+0.03	
57	9-10	49 42.8	46.8	42.80	0.61		49 43.0	47.0	43.00	0.79		49 42.19	42.21	-0.02	
58	13-14	49 58.7	62.6	58.65	0.61		49 58.8	62.7	58.75	0.79		49 58.04	57.96	+0.08	
59	13	51 5.2	9.2	5.20	0.62		51 5.5	.....	5.50	0.80		51 4.58	4.70	-0.12	
60	12-13	51 23.1	27.1	23.10	0.63		51 23.2	27.1	23.15	0.80		51 22.47	22.35	+0.12	
61	12-13	51 49.2	53.2	49.20	0.63		51 49.3	53.3	49.30	0.81		51 48.57	48.49	+0.08	
62	12	.....	.....	.....	.....		51 56.6	60.6	56.60	0.81		51 55.79	.....	.....
63	12-13	.....	.....	.....	.....		52 40.2	.....	40.20	0.82		52 39.38	.....	.....
64	12	.....	.....	.....	.....		52 54.6	58.8	54.70	0.82		52 53.88	.....	.....
65	11-12	53 32.8	36.7	32.75	0.65		53 32.9	37.0	32.95	0.83		53 32.10	32.12	-0.02	
66	12-13	53 52.8	56.7	52.75	0.65		53 53.0	57.0	53.00	0.83		53 52.10	52.17	-0.07	
67	12-13	55 18.8	22.7	18.75	0.67		55 19.0	23.0	19.00	0.84		55 18.08	18.16	-0.08	
68	12-13	57 14.7	10.70	0.68			57 10.8	14.9	10.85	0.86		57 10.02	9.99	+0.03	
69	9-10	57 20.7	24.8	20.75	0.68		57 21.0	24.9	20.95	0.86		57 20.07	20.09	-0.02	
70	11-12	57 28.6	24.60	0.68			57 28.7	24.70	0.86			57 23.92	23.84	+0.08	
71	6-8	58 15.8	20.0	15.90	0.70		58 16.0	20.1	16.05	0.87		58 15.20	15.18	+0.02	
72	.....	58 29.4	33.5	29.45	0.70		22 58 29.7	33.5	29.60	0.87		58 28.75	28.73	+0.02	
73	13	22 58 41.8	45.7	41.75	0.71		.....	.....	.....	.....		22 58 41.04	.....	.....
74	12-13	23 0 12.8	.....	12.80	0.72		23 0 17.1	13.10	0.89			23 0 12.08	12.21	-0.13	
75	12	.....	17.0	13.00	0.72		0 13.2	.....	13.20	0.89		0 12.28	12.31	-0.03	
76	.....	0 39.1	43.1	39.10	0.73		0 39.6	43.5	39.55	0.90		0 38.37	38.65	-0.28	
77	.....	0 40.3	44.2	40.25	0.73		0 40.7	44.6	40.65	0.90		0 39.52	39.75	-0.23	
78	11-12	0 54.3	58.4	54.35	0.73		0 54.6	58.5	54.55	0.90		0 53.62	53.65	-0.03	
79	.....	1 52.9	56.9	52.90	0.74		1 53.0	57.0	53.00	0.91		1 52.16	52.09	+0.07	
80	11-12	2 43.0	47.1	43.05	0.75		2 43.3	.....	43.30	0.91		2 42.30	42.39	-0.09	
81	11-12	2 48.0	51.9	47.95	0.75		2 48.1	52.0	48.05	0.92		2 47.20	47.13	+0.07	
82	12	2 55.7	59.6	55.65	0.75		2 55.7	59.8	55.75	0.92		2 54.90	54.83	+0.07	
83	12	4 2.5	6.3	2.40	0.76		4 2.5	6.6	2.55	0.93		4 1.64	1.62	+0.02	
84	11-12	4 20.2	24.1	20.15	0.76		4 20.4	24.4	20.40	0.93		4 19.39	19.47	-0.08	
85	11	4 26.0	30.0	26.00	0.76		4 26.2	30.0	26.10	0.93		4 25.24	25.17	+0.07	
86	11	4 31.4	35.4	31.40	0.77		4 31.6	35.4	31.50	0.93		4 30.63	30.57	+0.06	
87	.....	.....	.....	.....	.....		5 24.9	28.7	24.80	0.94		5 23.86	.....	.....
88	.....	.....	.....	.....	.....		5 54.7	58.8	54.75	0.94		5 53.81	.....	.....
89	12-13	7 22.0	26.1	22.05	0.79		7 22.2	26.2	22.20	0.96		7 21.26	21.24	+0.02	
90	12	23 8 7.3	11.3	7.30	-0.80		23 8 7.3	11.4	7.35	-0.96		23 8 6.50	6.39	+0.11	

A.R. ^{h.}22 ^{m.}26 to ^{h.}0 ^{m.}14.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 145.	d.	Zone 146.	d.	Zone 145.	Zone 146.		
46	+ 1 43	+ 0.2	+ 1 41	+ 0.6	+ 0 51 43.2	41.6	+ 1.6	
47	10 . .	...	....	...	1 0 ....	....	...
48	0 48	+ 0.4	0 46	+ 0.8	0 50 48.4	46.8	+ 1.6	
49	7 54	- 0.8	7 54	- 0.5	0 57 53.2	53.5	- 0.3	
50	0 27	+ 0.5	0 24	+ 0.8	0 50 27.5	24.8	+ 2.7	
51	6 7	- 0.5	6 6	- 0.2	0 56 6.5	5.8	+ 0.7	
52	6 21	0.5	6 20	0.2	0 56 20.5	19.8	+ 0.7	
53	5 58	0.5	5 57	- 0.2	0 55 57.5	56.8	+ 0.7	
54	9 48	- 1.1	....	...	0 59 46.9	....	...
55	3 18	0.0	3 20	+ 0.3	0 53 18.0	20.3	- 2.3	
56	2 58	+ 0.1	2 57	0.4	0 52 58.1	57.4	+ 0.7	
57	1 29	0.4	1 30	0.6	0 51 30.4	30.6	- 0.2	
58	2 21	0.2	2 31	0.4	0 52 21.2	31.4	-10.2	
59	1 39	+ 0.3	1 39	+ 0.6	0 51 39.3	39.6	- 0.3	
60	5 37	- 0.3	5 38	- 0.1	0 55 36.7	37.9	- 1.2	
61	0 29	+ 0.5	0 27	+ 0.8	0 50 29.5	27.8	+ 1.7	
62	6 51	- 0.5	6 53	- 0.3	0 56 50.5	52.7	- 2.2	
63	9 27	1.0	9 30	0.8	0 59 26.0	29.2	- 3.2	
64	6 14	0.4	6 15	0.2	0 56 13.6	14.8	- 1.2	
65	9 24	- 1.0	9 26	- 0.8	0 59 23.0	25.2	- 2.2	
66	3 4	+ 0.1	3 3	+ 0.3	0 53 4.1	3.3	+ 0.8	
67	5 0	- 0.2	5 0	0.0	0 54 59.8	60.0	- 0.2	No star above 14th mag. in the field.
68	3 45	0.0	3 46	0.2	0 53 45.0	46.2	- 1.2	
69	0 29	+ 0.6	0 30	+ 0.8	0 50 29.6	30.8	- 1.2	
70	8 11	- 0.7	8 9	- 0.6	0 58 10.3	8.4	+ 1.9	
71	10 18	1.1	10 22	1.0	1 0 17.8	21.0	- 3.2	
72	....	...	10 28	- 1.0	1 0	27.0	...	Trouble with the lamp in zone 146.
73	6 3	0.3	....	...	0 56 2.7	....	...
74	4 29	0.1	4 29	+ 0.1	0 54 28.9	29.1	- 0.2	
75	5 3	- 0.2	5 3	0.0	0 55 2.8	3.0	- 0.2	
76	....	...	9 30	- 0.8	0 59	29.2	...	Declination doubtful.
77	....	...	10 9	- 0.9	1 0	8.1	...	" "
78	0 18	+ 0.7	0 14	+ 0.9	0 50 18.7	14.9	+ 3.8	Trouble with the lamp in zone 145.
79	....	...	10 3	- 0.9	1 0	2.1	...	Distant comp., 8" p.
80	6 12	- 0.3	6 10	0.2	0 56 11.7	9.8	+ 1.9	
81	8 9	0.7	8 9	0.6	0 58 8.3	8.4	- 0.1	
82	5 15	- 0.2	5 15	0.0	0 55 14.8	15.0	- 0.2	
83	....	...	9 53	- 0.9	0 59	52.1	...	
84	1 52	+ 0.4	1 51	+ 0.6	0 51 52.4	51.6	+ 0.8	
85	3 16	0.2	3 24	0.3	0 53 16.2	24.3	...	
86	1 25	0.5	1 23	0.6	0 51 25.5	23.6	+ 1.9	Lamp taken out and fixed in zone 145.
87	....	...	5 3	0.0	0 55	3.0	...	
88	....	...	4 19	0.1	0 54	19.1	...	No stars above 15th mag.
89	3 58	+ 0.1	3 56	+ 0.2	0 53 58.1	56.2	+ 1.9	
90	+ 8 20	- 0.6	+ 8 20	- 0.6	+ 0 58 19.4	19.4	0.0	

A.R. ^{h.}22 ^{m.}20 to ^{h.}0 ^{m.}14.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 145.					ZONE 146.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 145.		Zone 146.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	
91	11-12	23 8 22.0	26.2	22.10	-0.80		23 8 22.2	....	22.20	-0.96		23 8 21.30	21.24	+0.06	
92	11-12	8 25.4	29.5	25.45	0.80		8 25.7	29.6	25.65	0.96		8 24.65	24.69	-0.04	
93	12	8 46.5	50.4	46.45	0.81		8 46.5	50.7	46.60	0.96		8 45.64	45.64	0.00	
94	12	9	21.0	17.00	0.81		9 17.5	21.5	17.50	0.96		9 16.19	16.54	-0.35	
95	12-13	9 24.7	28.7	24.70	0.81		.....	.....	.....	.....		9 23.89	.....	.....
96	12	9 36.1	40.0	36.05	0.82		9 36.2	40.3	36.25	0.97		9 35.23	35.28	-0.05	
97	12-13	10 52.0	56.0	52.00	0.83		10 52.5	56.3	52.40	0.98		10 51.17	51.42	-0.25	
98	13	11 35.0	39.0	35.00	0.84		11 35.2	39.2	35.20	0.99		11 34.16	34.21	-0.05	
99	12	11 43.5	47.6	43.55	0.84		11 43.8	47.8	43.80	0.99		11 42.71	42.81	-0.10	
100	12-13	12 5.2	....	5.20	0.84		12 5.3	9.2	5.25	1.00		12 4.36	4.25	+0.11	
101	11	12 11.3	15.3	11.30	0.84		12 11.4	15.3	11.35	1.00		12 10.46	10.35	+0.11	
102	13-14	13 6.6	10.6	6.60	0.85		13 6.7	10.7	6.70	1.01		13 5.75	5.69	+0.06	
103	13-14	14 5.0	9.0	5.00	0.86		14 5.2	9.1	5.15	1.01		14 4.14	4.14	0.00	
104	.....	.....	.....	.....	.....		14 14.4	18.4	14.40	1.02		14	13.38	.....
105	10-11	15 14.3	18.4	14.35	0.88		15 14.4	18.3	14.35	1.03		15 13.47	13.32	+0.15	
106	10-11	15 21.7	25.6	21.65	0.88		15 21.6	25.6	21.60	1.03		15 20.77	20.57	+0.20	
107	12	15	30.7	26.70	0.88		15 26.9	30.6	26.75	1.03		15 25.82	25.72	+0.10	
108	11-12	15 46.7	50.8	46.75	0.88		15 46.8	50.8	46.80	1.03		15 45.87	45.77	+0.10	
109	.....	.....	.....	.....	.....		15 59.3	63.1	59.20	1.03		15	58.17	.....
110	12-13	17 5.8	9.8	5.80	0.90		17 6.1	10.1	6.10	1.05		17 4.90	5.05	-0.15	
111	12-13	17 8.4	12.3	8.35	0.90		17 8.8	12.8	8.80	1.05		17 7.45	7.75	-0.30	
112	11-12	17 40.6	44.5	40.55	0.91		17 40.7	44.7	40.70	1.05		17 39.64	39.65	-0.01	
113	11-12	18 27.2	31.0	27.10	0.91		18 27.1	31.2	27.15	1.06		18 26.19	26.09	+0.10	
114	12-13	18 51.8	55.8	51.80	0.92		18 52.0	56.0	52.00	1.07		18 50.88	50.93	-0.05	
115	12-13	19 29.7	33.8	29.75	0.92		19 30.0	34.0	30.00	1.07		19 28.83	28.93	-0.10	
116	9-10	19 36.8	40.6	36.70	0.93		19 36.8	40.8	36.80	1.07		19 35.77	35.73	+0.04	
117	11-12	19 58.3	62.3	58.30	0.93		19 58.4	62.4	58.40	1.07		19 57.37	57.33	+0.04	
118	10-12	20 29.0	33.2	29.10	0.94		20 29.1	33.1	29.10	1.08		20 28.16	28.02	+0.14	
119	12-13	20 34.5	38.4	34.45	0.94		20 34.5	38.6	34.55	1.08		20 33.51	33.47	+0.04	
120	11-12	21 30.9	34.9	30.90	0.95		21 31.0	34.9	30.95	1.08		21 29.95	29.87	+0.08	
121	11-13	21 47.4	51.4	47.40	0.95		21 47.5	51.6	47.55	1.09		21 46.45	46.46	-0.01	
122	11-12	22 8.7	12.7	8.70	0.95		22 8.9	12.8	8.85	1.10		22 7.75	7.75	0.00	
123	9-11	22 29.5	33.5	29.50	0.96		22 29.6	33.7	29.65	1.10		22 28.54	28.55	-0.01	
124	13	22 47.5	51.5	47.50	0.96		22 47.6	51.8	47.70	1.10		22 46.54	46.60	-0.06	
125	11-12	23 19.7	23.7	19.70	0.97		23 19.8	23.9	19.85	1.11		23 18.73	18.74	-0.01	
126	12	23 57.7	61.7	57.70	0.97		23 57.8	61.8	57.80	1.11		23 56.73	56.69	+0.04	
127	.....	.....	.....	.....	.....		24 13.2	17.1	13.15	1.12		24	12.03	.....
128	9-10	24 27.6	33.5	29.55	0.98		24 29.5	33.6	29.55	1.11		24 28.57	28.44	+0.13	
129	12	24 31.9	35.9	31.90	0.98		24 32.1	36.0	32.05	1.12		24 30.92	30.93	-0.01	
130	13	24 53.4	57.4	53.40	0.98		24 53.9	57.7	53.80	1.12		24 52.42	52.68	-0.26	
131	12-13	26	13.3	9.30	1.00		26 9.7	13.8	9.75	1.13		26 8.30	8.62	-0.32	
132	12-13	27 30.8	34.9	30.85	1.01		27 31.0	35.2	31.10	1.15		27 29.84	29.95	-0.11	
133	10-11	27 45.2	49.0	45.10	1.01		27 45.5	49.4	45.45	1.15		27 44.09	44.30	-0.21	
134	13-14	28 17.3	21.3	17.30	1.02		28 17.4	21.3	17.30	1.15		28 16.28	16.15	+0.13	
135	12	23 28 50.2	54.2	50.20	-1.03		23 28 50.6	54.5	50.55	-1.15		23 28 49.17	49.40	-0.23	

A.R. $22^{\text{h}} 30^{\text{m}}$ to $0^{\text{h}} 14^{\text{m}}$ Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 145.	d.	Zone 146.	d.	Zone 145.	Zone 146.		
91	+10 14	- 1.0	+10 14	- 0.5	+ 1 0 13.0	13.5	- 0.5	
92	9 30	0.8	9 30	0.4	0 59 29.2	29.6	- 0.4	
93	6 15	- 0.3	6 15	- 0.1	0 56 14.7	14.9	- 0.2	
94	2 56	+ 0.3	2 57	+ 0.2	0 52 56.3	57.2	- 0.9	
95	7 34	- 0.5	....	...	0 57 33.5	....	...
96	7 30	0.5	7 30	- 0.2	0 57 29.5	29.8	- 0.3	
97	8 49	- 0.7	8 49	- 0.3	0 58 48.3	48.7	- 0.4	
98	2 10	+ 0.4	2 10	+ 0.3	0 52 10.4	10.3	+ 0.1	
99	7 0	- 0.4	7 0	- 0.2	0 56 59.6	59.8	- 0.2	
100	0 31	+ 0.7	0 30	+ 0.4	0 50 31.7	30.4	+ 1.3	
101	6 17	- 0.2	6 16	- 0.1	0 56 16.8	15.9	+ 0.9	
102	4 43	0.0	4 42	0.0	0 54 43.0	42.0	+ 1.0	
103	8 3	- 0.5	8 4	- 0.3	0 58 2.5	3.7	- 1.2	
104	....	...	2 41	+ 0.2	0 52	41.2	...	
105	0 7	+ 0.8	0 7	+ 0.4	0 50 7.8	7.4	+ 0.4	
106	8 48	- 0.6	8 49	- 0.3	0 58 47.4	48.7	- 1.3	
107	2 27	+ 0.4	2 27	+ 0.2	0 52 27.4	27.2	+ 0.2	
108	4 51	0.0	4 50	0.0	0 54 51.0	50.0	+ 1.0	
109	....	...	9 57	- 0.4	0 59	56.6	...	
110	5 14	0.0	5 15	0.0	0 55 14.0	15.0	- 1.0	
111	5 6	0.0	5 7	0.0	0 55 6.0	7.0	- 1.0	
112	1 40	+ 0.6	1 39	+ 0.3	0 51 40.6	39.3	+ 1.3	
113	4 11	0.2	4 11	0.1	0 54 11.2	11.1	+ 0.1	
114	0 46	0.8	0 43	0.4	0 50 46.8	43.4	+ 3.4	
115	1 13	0.7	1 12	+ 0.3	0 51 13.7	12.3	+ 1.4	
116	5 30	+ 0.8	5 29	0.0	0 55 30.8	29.0	+ 1.8	
117	9 22	- 0.7	9 22	- 0.4	0 59 21.3	21.6	- 0.3	
118	4 5	+ 0.2	4 4	+ 0.1	0 54 5.2	4.1	+ 1.1	
119	6 28	- 0.2	6 28	- 0.1	0 56 27.8	27.9	- 0.1	
120	9 31	- 0.7	9 31	- 0.4	0 59 30.3	30.6	- 0.3	
121	4 17	+ 0.2	4 17	+ 0.1	0 54 17.2	17.1	+ 0.1	
122	0 49	0.8	0 48	0.4	0 50 49.8	48.4	+ 1.4	
123	1 31	0.7	1 31	0.3	0 51 31.7	31.3	+ 0.4	
124	+ 1 20	0.7	+ 1 19	0.3	0 51 20.7	19.3	+ 1.4	
125	- 0 35	1.0	- 0 34	0.5	0 49 26.0	26.5	- 0.5	Meteor crossed the field f. to p.
126	+ 4 6	+ 0.2	+ 4 7	0.1	0 54 6.2	7.1	+ 1.1	
127	....	...	0 33	+ 0.4	0 50	33.4	...	
128	7 18	- 0.3	7 18	- 0.2	0 57 17.7	17.6	+ 0.1	
129	1 18	+ 0.7	1 16	+ 0.3	0 51 18.7	16.3	+ 2.4	
130	0 0	0.9	0 0	0.9	0 50 0.9	0.9	0.0	
131	4 2	0.3	4 3	0.1	0 54 2.3	3.1	- 0.8	
132	+ 3 0	0.5	+ 2 59	0.2	0 52 60.5	59.2	+ 1.3	
133	- 0 27	1.6	- 0 27	+ 0.5	0 49 34.6	33.5	+ 1.1	
134	+ 5 12	+ 0.1	+ 5 10	0.0	0 55 12.1	10.0	+ 2.1	
135	+10 3	- 0.7	+10 8	- 0.5	+ 1 0 2.3	7.5	- 5.2	

A.R. ^{h.}23 ^{m.}20 to ^{h.}0 ^{m.}14.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 145.					ZONE 146.					MEAN RIGHT ASCENSION. 1859.0					Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 145.				Zone 146.
		h.	m.	s.	s.	s.		h.	m.	s.	s.	s.		h.	m.	s.		s.
136	12-13							23	29	17.2	21.1	17.15	-1.16	23	29	.....	15.99	.....
137	11	23	29	53.2	57.2	53.20	-1.04		29	53.3	57.3	53.30	1.17		29	52.16	52.13	+0.03
138	10-12		30	17.1	21.0	17.05	1.04		30	17.3	21.2	17.25	1.17		30	16.01	16.08	-0.07
139	11-12		31	42.7	46.7	42.70	1.06		31	43.0	47.0	43.00	1.18		31	41.64	41.82	-0.18
140	12		31	44.4	48.6	44.50	1.06		31	44.6	48.7	44.65	1.18		31	43.44	43.47	-0.03
141	10-11		32	56.8	60.7	56.75	1.07		32	56.8	60.9	56.85	1.20		32	55.68	55.65	+0.03
142	10-11		33	43.2	47.1	43.15	1.08		33	43.3	47.3	43.30	1.21		.....	.....	.....
143	6		34	52.3	56.3	52.30	1.09		34	52.5	56.4	52.45	1.21		34	51.21	51.24	-0.03
144	12		35	1.6	5.6	1.60	1.10		35	1.8	5.8	1.80	1.22		.....	.....	.....
145	12		35	43.3	47.2	43.25	1.10		35	42.3	47.3	.....	.....		.....	.....	.....
146	12-13		36	4.6	8.6	4.60	1.11		36	4.8	8.3	4.45	1.22		.....	.....	.....
147	12		37	20.2	24.2	20.20	1.12		37	20.3	24.3	20.30	1.24		.....	.....	.....
148	.....		37	29.3	33.2	29.25	1.12		37	.....	.....	.....	.....		.....	.....	.....
149	12-13		38	9.0	13.0	9.00	1.13		38	9.2	13.2	9.20	1.24		.....	.....	.....
150	9-10		38	35.9	39.9	35.90	1.13		38	35.8	40.1	35.95	1.25		38	34.77	34.69	+0.08
151	9-11		38	42.3	46.0	42.15	1.14		38	42.3	46.4	42.35	1.25		38	41.01	41.10	-0.09
152	12		.....	.....	.....	.....	.....		39	49.3	.....	49.30	1.26		39	.....	48.04	.....
153	11		.....	.....	.....	.....	.....		39	53.1	57.1	53.10	1.26		39	.....	51.84	.....
154	.....		.....	.....	.....	.....	.....		40	31.1	35.2	31.15	1.27		40	.....	29.88	.....
155	.....		.....	.....	.....	.....	.....		41	41.3	45.2	41.25	1.28		41	.....	39.97	.....
156	13		.....	.....	.....	.....	.....		42	12.9	16.7	12.80	1.28		42	.....	11.52	.....
157	11-12		43	14.2	18.0	14.10	1.19		43	14.3	18.2	14.25	1.29		43	12.91	12.96	-0.05
158	11-12		43	21.9	26.0	21.95	1.19		43	22.0	26.1	22.05	1.30		43	20.76	20.75	+0.01
159	14		44	19.6	23.4	19.50	1.20		44	19.8	23.7	19.75	1.31		44	18.30	18.44	-0.14
160	12-13		45	50.8	54.9	50.85	1.21		45	51.0	55.0	51.00	1.32		45	49.64	49.68	-0.04
161	10		46	19.8	23.7	19.75	1.22		46	19.8	23.8	19.80	1.33		46	18.53	18.47	+0.06
162	14		46	57.6	61.5	57.55	1.23		46	57.6	61.6	57.60	1.34		46	56.32	56.26	+0.06
163	12-13		47	44.3	48.3	44.30	1.23		47	44.4	48.3	44.35	1.34		47	43.07	43.01	+0.06
164	.....		.....	.....	.....	.....	.....		47	51.6	55.7	51.65	1.35		47	.....	50.30	.....
165	12-13		48	15.2	19.3	15.25	1.24		48	15.2	19.1	15.15	1.35		48	14.01	13.80	+0.21
166	12		51	.....	13.2	9.20	1.27		51	9.3	13.4	9.35	1.37		51	7.93	7.98	-0.05
167	12-13		51	15.9	20.0	15.95	1.27		51	16.1	20.0	16.05	1.37		51	14.68	14.68	0.00
168	11-12		51	27.9	31.8	27.85	1.27		51	28.0	32.2	28.10	1.38		51	26.58	26.72	-0.14
169	12-13		52	36.4	40.4	36.40	1.29		52	36.4	40.2	36.30	1.38		52	35.11	34.92	+0.19
170	9-11		52	59.9	63.9	59.90	1.29		53	0.0	4.1	0.05	1.39		52	58.61	58.66	-0.05
171	12-13		53	54.9	58.9	54.90	1.30		53	54.9	58.8	54.85	1.40		53	53.60	53.45	+0.15
172	12-13		54	10.9	14.7	10.80	1.30		54	10.8	14.8	10.80	1.40		54	9.50	9.40	+0.10
173	11-12		54	30.7	34.8	30.75	1.31		54	30.9	34.8	30.85	1.40		54	29.44	29.45	-0.01
174	12-13		54	56.1	59.9	56.00	1.31		54	56.1	60.0	56.05	1.41		54	54.69	54.64	+0.05
175	12-13		55	7.3	11.3	7.30	1.31		55	7.1	11.1	7.10	1.41		55	5.99	5.69	+0.30
176	12-13		55	34.0	38.1	34.05	1.32		55	34.0	38.0	34.00	1.42		55	32.73	32.58	+0.15
177	12-13		56	17.9	21.9	17.90	1.32		56	18.1	22.0	18.05	1.42		56	16.58	16.63	-0.05
178	12-13		56	45.0	48.8	44.90	1.33		56	44.8	45.9	44.85	1.43		56	43.57	43.42	+0.15
179	12-13		57	18.1	22.1	18.10	1.33		57	17.7	22.0	17.85	1.43		57	16.77	16.42	+0.35
180	12-14	23	57	57.7	61.7	57.70	-1.34	23	57	57.8	61.7	57.75	-1.44	23	57	56.36	56.31	+0.05

A.R. $\overset{h.}{22}^{\overset{m.}{20}}$ to $\overset{h.}{0}^{\overset{m.}{14}}$.Dec. $+\overset{\circ}{0}^{\overset{'}{50}}$ to $\overset{\circ}{1}^{\overset{'}{0}}$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 145.	d.	Zone 146.	d.	Zone 145.	Zone 146.		
136	+ 0 16	+ 0.9	+ 0 13	+ 0.4	+ 0 50 16.9	13.4	+ 3.5	Comp., s. f., 14", 14th mag.
137	4 51	0.2	4 50	0.0	0 54 51.2	50.0	+ 1.2	
138	2 9	0.6	2 7	+ 0.3	0 52 9.6	7.3	+ 2.3	
139	5 35	0.1	5 34	- 0.1	0 55 35.1	33.9	+ 1.2	
140	3 27	0.4	3 27	+ 0.1	0 53 27.4	27.1	+ 0.3	Bad seeing in zone 145.
141	2 3	0.7	2 2	0.3	0 52 3.7	2.3	+ 1.4	{ Declination doubtful. Trouble with lamp.
142	2 8	0.7	2 7	+ 0.3	0 52 8.7	7.3	+ 1.4	
143	....	...	10 18	- 1.0	1 0	17.0	...
144	3 16	0.5	3 14	+ 0.2	0 53 16.5	14.2	+ 2.3	
145	2 39	+ 0.6	2 37	+ 0.2	0 52 39.6	37.2	+ 2.4	
146	9 9	- 0.5	9 11	- 0.4	0 59 8.5	10.6	- 2.1	
147	4 14	+ 0.3	4 12	+ 0.1	0 54 14.3	12.1	+ 2.2	
148	10 ..	...	....	...	.....	....	...
149	6 50	- 0.1	6 49	- 0.2	0 56 49.9	48.8	+ 1.1	
150	3 28	+ 1.1	3 27	+ 0.3	0 53 29.1	27.3	+ 1.8	
151	9 29	- 0.5	9 30	- 0.4	0 59 28.5	29.6	- 1.1	No stars above 14th mag.
152	....	...	7 17	0.2	0 57 ....	....	...
153	....	...	8 9	0.3	0 58 ....	....	...
154	....	...	10 25	- 0.5	1 0 ....	....	...
155	....	...	1 26	+ 0.3	0 51 ....	....	...
156	2 22	0.2	0 52	No stars above 14th mag.
157	2 50	+ 0.7	2 49	+ 0.2	0 52 50.7	49.2	+ 1.5	
158	6 24	0.0	6 33	- 0.1	0 56 24.0	32.9	+ 1.1	
159	6 59	0.0	6 58	- 0.2	0 56 59.0	57.8	+ 1.2	
160	4 13	0.4	4 12	+ 0.1	0 54 13.4	12.1	+ 1.3	Seeing a little better.
161	5 9	0.3	5 9	0.0	0 55 9.3	9.0	+ 0.3	No star above 14th mag.
162	2 39	+ 0.7	2 37	+ 0.2	0 52 39.7	37.2	+ 2.5	
163	9 41	- 0.5	9 43	- 0.4	0 59 40.5	42.6	- 2.1	
164	....	...	3 12	+ 0.2	0 53 ....	....	...
165	3 4	+ 0.7	3 5	+ 0.2	0 53 4.7	5.2	- 0.5	
166	9 23	- 0.4	9 26	- 0.4	0 59 22.6	25.6	- 3.0	Declination doubtful zone 145.
167	9 48	0.5	9 50	0.4	0 59 47.5	49.6	- 2.1	
168	9 3	0.3	9 4	0.4	0 59 2.7	3.6	- 0.9	
169	10 0	0.5	10 1	0.5	0 59 59.5	60.5	- 1.0	
170	9 16	- 0.3	9 18	- 0.4	0 59 15.7	17.6	- 1.9	
171	1 17	+ 1.0	1 38	+ 0.3	0 51 18.0	38.3	20.3	Declination of zone 146 correct.
172	4 34	+ 0.5	4 35	0.0	0 54 34.5	35.0	- 0.5	
173	10 12	- 0.5	10 15	- 0.5	1 0 11.5	14.5	- 3.0	
174	5 19	+ 0.3	5 18	0.0	0 55 19.3	18.0	+ 1.3	
175	5 9	0.4	5 10	0.0	0 55 9.4	10.0	- 0.6	
176	1 6	+ 1.1	1 6	+ 0.4	0 51 7.1	6.4	+ 0.7	
177	7 57	- 0.1	7 59	- 0.3	0 57 56.9	58.7	- 1.8	
178	1 13	+ 1.1	1 13	+ 0.3	0 51 14.1	13.3	+ 0.8	
179	1 3	1.1	1 0	0.4	0 51 4.1	0.4	+ 3.7	
180	+ 0 59	+ 1.1	+ 0 58	+ 0.4	+ 0 50 60.1	58.4	+ 1.7	

A.R. ^{h.}22 ^{m.}30 to ^{h.}0 ^{m.}14.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 145.					ZONE 146.					MEAN RIGHT ASCENSION. 1859.0				Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 145.			Zone 146.	
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.		s.	s.
181	12-13	23	58	55.7	59.7	55.70	-1.35	23	58	55.9	59.7	55.80	-1.44	23	58	54.35	54.36	-0.01
182	12-13		59	19.6	23.8	19.70	1.35		59	20.0	....	20.00	1.45		59	18.35	18.55	-0.20
183	12-13		59	20.6	24.6	20.60	1.35		59	....	24.6	20.60	1.45		59	19.25	19.15	+0.10
184	12	23	59	46.8	50.8	46.80	1.36	23	59	46.8	50.7	46.75	1.45	23	59	45.44	45.30	+0.14
185	9-11	0	0	8.2	12.2	8.20	1.36	0	0	8.2	12.3	8.25	1.46	0	0	6.84	6.79	+0.05
186	10-12		0	56.6	60.7	56.65	1.37		0	56.8	60.7	56.75	1.46		0	55.28	55.29	-0.01
187	12-13		2	45.3	49.2	45.25	1.39		2	45.1	49.1	45.10	1.48		2	43.86	43.62	+0.24
188	12		3	17.4	21.4	17.40	1.40		3	17.5	21.3	17.40	1.49		3	16.00	15.91	+0.09
189	13-14		3	33.2	37.2	33.20	1.40		3	33.2	37.2	33.20	1.49		3	31.80	31.71	+0.09
190	12-13		3	58.5	62.4	58.45	1.40		3	58.4	62.4	58.40	1.50		3	57.05	56.90	+0.15
191	12		4	26.0	30.0	26.00	1.41		4	26.1	30.0	26.05	1.50		4	24.59	24.55	+0.04
192	12		4	27.2	31.3	27.25	1.41		4	27.3	31.1	27.20	1.50		4	25.84	25.70	+0.14
193	12		4	35.5	39.3	35.40	1.41		4	35.2	39.1	35.15	1.50		4	33.99	33.65	+0.34
194	13		5	43.1	46.8	42.95	1.42		5	43.1	46.9	43.00	1.51		5	41.53	41.49	+0.04
195	13-14		5	45.2	49.1	45.15	1.42		5	45.3	49.2	45.25	1.51		5	43.73	43.74	-0.01
196	12		6	3.0	7.0	3.00	1.43		6	2.8	7.0	2.90	1.51		6	1.57	1.39	+0.18
197	12-13		6	12.8	16.8	12.80	1.43		6	13.0	16.8	12.90	1.52		6	11.37	11.38	-0.01
198	11-12		7	30.0	34.2	30.10	1.44		7	30.0	34.1	30.05	1.53		7	28.66	28.52	+0.14
199	13		8	59.0	....	59.00	1.46		8	59.2	63.1	59.15	1.54		8	57.54	57.61	-0.07
200	12		9	3.0	7.1	3.05	1.46		9	....	7.0	3.00	1.55		9	1.59	1.45	+0.14
201	12-13		9	58.8	62.9	58.85	1.46		9	59.0	62.8	58.90	1.55		9	57.39	57.35	+0.04
202	10-11		10	4.2	8.1	4.15	1.47		10	4.2	8.3	4.25	1.55		10	2.68	2.70	-0.02
203	6-7		10	34.7	38.7	34.70	1.47		10	35.0	38.9	34.95	1.56		10	33.23	33.39	-0.16
204	13-14		11	38.3	42.0	38.15	1.49		11	38.4	42.2	38.30	1.57		11	36.66	36.73	-0.07
205	12-13		12	36.6	40.4	36.50	1.50		12	36.8	40.6	36.70	1.58		12	35.00	35.12	-0.12
206	12-13		12	47.3	51.2	47.25	1.50		12	47.2	51.2	47.20	1.59		12	45.75	45.61	+0.14
207	....		13	46.6	50.6	46.60	1.51		13	46.7	50.6	46.65	1.59		13	45.09	45.06	+0.03
208	12-13	0	14	12.4	16.5	12.45	-1.52	0	14	12.3	16.5	12.40	-1.60	0	14	10.93	10.80	+0.13

A.R. $\overset{h.}{22}^{\overset{m.}{20}}$ to $\overset{h.}{0}^{\overset{m.}{14}}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 145.	d.	Zone 146.	d.	Zone 145.	Zone 146.		
181	+ 6 56	+ 0.1	+ 6 59	- 0.2	+ 0 56 56.1	58.8	- 2.7	An entirely starless field.
182	1 33	+ 1.0	1 32	+ 0.3	0 51 34.0	32.3	+ 1.7	
183	8 0	- 0.1	8 1	- 0.3	0 57 59.9	60.7	- 0.8	
184	9 29	- 0.2	9 40	- 0.4	0 59 28.8	39.6	...	
185	2 53	+ 0.8	2 54	+ 0.2	0 52 53.8	54.2	- 0.4	
186	7 57	0.0	7 57	- 0.3	0 57 57.0	56.7	+ 0.3	
187	7 40	0.0	7 40	- 0.2	0 57 40.0	39.8	+ 0.2	
188	0 20	+ 1.3	0 20	+ 0.4	0 50 21.3	20.4	+ 0.9	
189	5 9	0.5	5 10	0.0	0 55 9.5	10.0	- 0.5	
190	0 41	1.2	0 40	0.4	0 50 42.2	40.4	+ 1.8	
191	3 21	0.8	3 20	0.2	0 58 21.8	20.2	+ 1.6	
192	4 41	0.5	4 40	0.0	0 54 41.5	40.0	+ 1.5	
193	3 53	0.7	3 55	+ 0.1	0 53 53.7	55.1	- 1.4	
194	6 2	0.3	6 3	- 0.1	0 56 2.3	2.9	- 0.6	
195	5 11	0.5	5 10	0.0	0 55 11.5	10.0	+ 1.5	
196	8 7	0.0	8 7	0.3	0 58 7.0	6.7	+ 0.3	
197	+ 6 10	0.3	+ 6 10	- 0.1	0 56 10.3	9.9	+ 0.4	
198	- 0 8	1.4	- 0 8	+ 0.5	0 49 53.4	52.5	+ 0.9	
199	+ 6 9	0.3	+ 6 10	- 0.1	0 56 9.3	9.9	- 0.6	
200	0 59	+ 1.2	0 58	+ 0.4	0 50 60.2	58.4	+ 1.8	
201	9 44	- 0.3	9 43	- 0.4	0 59 43.7	42.6	+ 1.1	Comp. n. f. 10", 14th mag.
202	7 0	+ 0.2	7 2	- 0.2	0 57 0.2	1.8	- 1.6	
203	4 20	0.7	4 21	+ 0.1	0 54 21.7	21.1	+ 0.6	
204	5 53	0.4	5 56	- 0.1	0 55 53.4	55.9	- 2.5	
205	7 12	0.2	7 13	- 0.2	0 57 12.2	12.8	- 0.6	
206	2 34	1.0	2 33	+ 0.2	0 52 35.0	33.2	+ 1.8	
207	....	...	10 14	- 0.5	1 0	13.5	...
208	+ 1 5	+ 1.3	+ 1 4	+ 0.4	+ 0 51 6.3	4.4	+ 1.9	

A.R. $0^{\text{h}} 10^{\text{m}}$ to $2^{\text{h}} 13^{\text{m}}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number of the Star.	Magnitude.	ZONE 147.						ZONE 148.						MEAN RIGHT ASCENSION. 1859.0					Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 147.			Zone 148.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.		
1	6-7	0	10	33.2	37.2	33.20	+0.09	0	10	33.3	37.4	33.35	-0.04	0	10	33.29	33.31	-0.02		
2	13		11	36.6	40.5	36.55	0.09		11	36.8	40.7	36.75	0.05		11	36.64	36.70	-0.06		
3	12-13		12	35.0	39.0	35.00	0.08		12	35.2	39.1	35.15	0.06		12	35.08	35.09	-0.01		
4	12-13		12	45.6	49.5	45.55	0.08		12	45.8	....	45.80	0.06		12	45.63	45.74	-0.11	
5	12-13		13	45.0	48.7	44.85	0.07		13	45.2	49.1	45.15	0.07		13	44.92	45.08	-0.16		
6	12		14	11.0	15.0	11.00	0.08		.....	.....	.....	.....		14	11.08	.....	.....	
7	12-13		.....	.....	.....	.....	.....		16	.....	16.3	12.30	0.08		16	.....	12.22	.....	
8	12-13		16	17.8	21.8	17.80	0.07		16	18.3	22.2	18.25	0.08		16	17.87	18.17	-0.30		
9	10-11		17	21.1	25.0	21.05	0.06		17	21.2	25.3	21.25	0.09		17	21.11	21.16	-0.05		
10	12-13		18	34.9	38.8	34.85	0.05		18	35.4	39.3	35.35	0.10		18	34.90	35.25	-0.35		
11	12-13		19	17.8	21.7	17.75	0.05		19	18.1	22.0	18.05	0.11		19	17.80	17.94	-0.14		
12	.....		.....	.....	.....	.....	.....		19	42.0	46.0	42.10	0.11		19	.....	41.89	.....	
13	12		20	39.8	43.8	39.80	0.05		20	40.1	44.1	40.10	0.11		20	39.85	39.99	-0.14		
14	13		20	50.1	54.0	50.05	0.05		20	50.5	54.2	50.35	0.11		20	50.10	50.24	-0.14		
15	12-13		22	49.6	53.6	49.60	0.03		22	50.0	....	50.00	0.13		22	49.63	49.87	-0.24	
16	12		23	7.3	11.1	7.20	0.04		23	8.0	11.8	7.90	0.13		23	7.24	7.77	-0.53		
17	12		23	18.3	22.3	18.30	0.03		23	18.7	22.4	18.55	0.13		23	18.33	18.42	-0.09		
18	9-11		23	39.6	43.6	39.60	0.03		23	40.1	44.0	40.05	0.14		23	39.63	39.91	-0.28		
19	12		25	10.1	14.1	10.10	0.02		25	10.3	14.2	10.25	0.15		25	10.12	10.10	+0.02		
20	11		25	52.2	56.2	52.20	0.02		25	52.3	56.4	52.35	0.15		25	52.22	52.20	+0.02		
21	12		27	43.3	47.3	43.30	0.01		27	43.6	47.7	43.65	0.16		27	43.31	43.51	-0.20		
22	11		28	38.5	42.4	38.45	0.02		28	39.0	42.9	38.95	0.17		28	38.47	38.78	-0.31		
23	11-12		28	48.0	52.1	48.05	0.01		28	48.4	52.2	48.30	0.17		28	48.06	48.13	-0.07		
24	10-11		30	20.4	24.4	20.40	0.00		30	20.6	24.6	20.60	0.18		30	20.40	20.42	-0.02		
25	10-11		30	32.8	36.7	32.75	+0.01		30	....	37.0	33.00	0.18		30	32.76	32.82	-0.06	
26	14		31	5.1	9.1	5.10	0.00		.....	.....	.....	.....		31	5.10	.....	.....	
27	12-13		32	32.9	36.5	32.70	-0.01		32	33.0	36.9	32.95	0.20		32	32.69	32.75	-0.06		
28	12-13		32	47.3	....	47.30	0.01		.....	.....	.....	.....		32	47.29	.....	.....	
29	12-13		32	59.0	63.1	59.05	0.01		.....	.....	.....	.....		32	59.04	.....	.....	
30	10		34	20.5	24.7	20.60	0.02		34	20.8	24.7	20.75	0.21		34	20.58	20.54	+0.04		
31	9-11		35	26.7	30.7	26.70	0.02		35	27.1	31.1	27.10	0.22		35	26.68	26.88	-0.20		
32	10-12		35	34.6	38.6	34.60	0.03		35	35.0	38.7	34.85	0.22		35	34.57	34.63	-0.06		
33	11-12		35	41.9	45.9	41.90	0.03		35	42.2	46.1	42.15	0.22		35	41.87	41.93	-0.06		
34	11-12		36	50.1	53.9	50.00	0.03		36	50.4	54.2	50.30	0.23		36	49.97	50.07	-0.10		
35	12		36	58.0	61.9	57.95	0.03		.....	.....	.....	.....		36	57.92	.....	.....	
36	12		38	19.7	23.7	19.70	0.04		.....	.....	.....	.....		38	19.66	.....	.....	
37	12-13		.....	.....	.....	.....	.....		38	20.1	24.2	20.15	0.24		38	.....	19.91	.....	
38	9-11		38	22.9	26.8	22.85	0.04		38	23.0	27.2	23.10	0.24		38	22.81	22.87	-0.06		
39	12-13		38	59.8	63.5	59.65	0.04		39	0.1	3.9	0.00	0.24		38	59.61	59.76	-0.15		
40	11-12		39	54.9	58.8	54.85	0.05		39	55.2	59.1	55.15	0.25		39	54.80	54.90	-0.10		
41	12-14		40	42.1	46.0	42.05	0.05		40	42.9	46.6	42.75	0.25		40	42.00	42.50	-0.50		
42	13-14		41	2.6	....	2.60	0.05		.....	.....	.....	.....		41	2.55	.....	.....	
43	10-11		41	24.8	29.0	24.90	0.05		41	25.4	29.2	25.30	0.26		41	24.85	25.04	-0.19		
44	11-13		41	31.1	35.2	31.15	0.05		41	....	35.7	31.70	0.26		41	31.10	31.44	-0.34	
45	11-12		0	42	39.8	43.8	39.80	-0.06		0	42	40.2	44.2	-0.27		0	42	39.74	39.93	-0.19

A.R. ^{h.}0 ^{m.}10 to ^{h.}2 ^{m.}13.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 147.	d.	Zone 148.	d.	Zone 147.	Zone 148.		
1	+ 4 22	- 3.0	+ 4 23	- 5.1	+ 0 54 19.0	17.9	+ 1.1	Meteor from n. f. to s. f.
2	5 57	3.2	5 59	5.6	0 55 53.8	53.4	+ 0.4	
3	7 20	3.4	7 17	5.9	0 57 16.6	11.1	+ 5.5	
4	2 34	2.9	....	...	0 52 31.1	....	...
5	10 12	3.7	10 19	6.8	1 0 8.3	12.2	- 3.9	Declination doubtful in zone 147.
6	1 6	2.8	....	...	0 51 3.2	....	...	Not seen in zone 148.
7	7 23	3.5	7 28	6.3	0 57 19.5	21.7	- 2.2	
8	1 33	2.9	1 48	4.6	0 51 30.1	43.4	...	Lamp troublesome, zone 148.
9	6 21	3.4	6 23	5.8	0 56 17.6	17.2	+ 0.4	
10	5 35	3.3	5 39	5.7	0 55 31.7	33.3	- 1.6	
11	9 8	3.7	+ 9 9	6.7	0 59 4.3	2.3	+ 2.0	Elongated.
12	....	...	- 0 27	4.1	0 49 ....	....	...
13	0 48	2.9	+ 0 49	4.4	0 50 45.1	44.6	+ 0.5	
14	1 55	3.0	....	...	0 51 52.0	....	...	Starless field.
15	9 7	3.8	9 8	6.8	0 59 3.2	1.2	+ 2.0	
16	2 13	3.1	2 17	4.9	0 52 9.9	12.1	- 2.2	
17	6 58	3.6	6 42	6.1	0 56 54.4	35.9	...	
18	0 13	2.9	0 19	4.4	0 50 10.1	14.6	- 4.5	Starless field.
19	4 44	3.4	4 46	5.7	0 54 40.6	41.3	- 0.7	Close comp., s. p.; bluish.
20	8 5	3.7	8 6	6.6	0 57 61.3	59.4	+ 1.9	Focus adjusted in zone 148.
21	9 2	3.9	9 7	7.0	0 58 58.1	60.0	- 1.9	
22	0 52	3.1	0 56	4.8	0 50 48.9	51.2	- 2.3	
23	4 39	3.4	4 40	5.8	0 54 35.6	34.2	+ 1.4	No stars above 15th mag.
24	7 3	3.7	7 5	6.5	0 56 59.3	58.5	+ 0.8	
25	0 53	3.1	0 57	4.9	0 50 49.9	52.1	- 2.2	
26	6 40	3.7	....	...	0 56 36.3	....	...
27	3 9	3.4	3 10	5.5	0 53 5.6	4.5	+ 1.1	
28	10 29	4.1	....	...	1 0 24.9	....	...
29	6 20	3.7	....	...	0 56 16.3	....	...
30	8 31	3.9	8 34	7.1	0 58 27.1	26.9	+ 0.2	
31	5 27	3.7	5 28	6.2	0 55 23.3	21.8	+ 1.5	
32	8 43	4.0	8 45	7.1	0 58 39.0	37.9	+ 1.1	
33	9 20	4.1	9 22	7.3	0 59 15.9	14.7	+ 1.2	
34	7 8	3.9	8 5	7.0	0 56 64.1	58.0	...	Preceded by a 14th-mag. star about 4½s.
35	2 ..	...	....	...	0 52 ....	....	...
36	4 2	3.6	....	...	0 53 58.4	....	...
37	3 45	3.5	3 49	5.9	0 53 41.5	43.1	- 1.6	
38	6 18	3.8	6 20	6.6	0 56 14.2	13.4	+ 0.8	
39	7 19	3.9	7 25	6.9	0 57 15.1	18.1	- 3.0	Difficult to read in zone 148.
40	6 7	3.8	6 10	6.6	0 56 3.2	3.4	- 0.2	
41	5 20	3.7	5 21	6.4	0 55 16.3	14.6	+ 1.7	
42	7 1	3.9	....	...	0 56 57.1	....	...	Seen in zone 148, but not observed.
43	1 53	3.4	1 58	5.5	0 51 49.6	52.5	- 2.9	
44	2 52	3.5	2 58	5.8	0 52 48.5	52.2	- 3.7	Declination doubtful in zone 148.
45	+ 4 9	- 3.7	+ 4 15	- 6.2	+ 0 54 5.3	8.8	- 3.5	

A.R. $0^{\text{h}} 10^{\text{m}}$ to $2^{\text{h}} 13^{\text{m}}$.Dec. $+0^{\circ} 50'$ to 1°

Number of the Star.	Magnitude.	ZONE 147.				ZONE 148.				MEAN R.I.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h.
1	6-7	0 10 33.2	37.2	33.20	+0.09	0 10 33.3	37.4	33.35	-0.04	0
2	13	11 36.6	40.5	36.55	0.09	11 36.8	40.7	36.75	0.05	
3	12-13	12 35.0	39.0	35.00	0.08	12 35.2	39.1	35.15	0.06	
4	12-13	12 45.6	49.5	45.55	0.08	12 45.8	...	45.80	0.06	
5	12-13	13 45.0	48.7	44.85	0.07	13 45.2	49.1	45.15	0.07	
6	12	14 11.0	15.0	11.00	0.08	...	...	...	...
7	12-13	...	...	...	...	16 ...	16.3	12.30	0.08	
8	12-13	16 17.8	21.8	17.80	0.07	16 18.3	22.2	18.25	0.08	
9	10-11	17 21.1	25.0	21.05	0.06	17 21.2	25.3	21.25	0.09	
10	12-13	18 34.9	38.8	34.85	0.05	18 35.4	39.3	35.35	0.10	
11	12-13	19 17.8	21.7	17.75	0.05	19 18.1	22.0	18.05	0.11	
12	...	...	...	...	...	19 42.0	46.0	42.10	0.11	
13	12	20 39.8	43.8	39.80	0.05	20 40.1	44.1	40.10	0.11	
14	13	20 50.1	54.0	50.05	0.05	20 50.5	54.2	50.35	0.11	
15	12-13	22 49.6	53.6	49.60	0.03	22 50.0	...	50.00	0.13	
16	12	23 7.3	11.1	7.20	0.04	23 8.0	11.8	7.90	0.13	
17	12	23 18.3	22.3	18.30	0.03	23 18.7	22.4	18.55	0.13	
18	9-11	23 39.6	43.6	39.60	0.03	23 40.1	44.0	40.05	0.1	
19	12	25 10.1	14.1	10.10	0.02	25 10.3	14.2	10.25	0.1	
20	11	25 52.2	56.2	52.20	0.02	25 52.3	56.4	52.35	0.1	
21	12	27 43.3	47.3	43.30	0.01	27 43.6	47.7	43.65	0.	
22	11	28 38.5	42.4	38.45	0.02	28 39.0	42.9	38.95	0	
23	11-12	28 48.0	52.1	48.05	0.01	28 48.4	52.2	48.30	0	
24	10-11	30 20.4	24.4	20.40	0.00	30 20.6	24.6	20.60	0	
25	10-11	30 32.8	36.7	32.75	+0.01	30 ...	37.0	33.00	0	
26	14	31 5.1	9.1	5.10	0.00	...	...	...	...
27	12-13	32 32.9	36.5	32.70	-0.01	32 33.0	36.9	32.95	...	
28	12-13	32 47.3	...	47.30	0.01	...	...	...	...
29	12-13	32 59.0	63.1	59.05	0.01	...	...	...	...
30	10	34 20.5	24.7	20.60	0.02	34 20.8	24.7	20.75	...	
31	9-11	35 26.7	30.7	26.70	0.02	35 27.1	31.1	27.10	...	
32	10-12	35 34.6	38.6	34.60	0.03	35 35.0	38.7	34.80	...	
33	11-12	35 41.9	45.9	41.90	0.03	35 42.2	46.1	42.10	...	
34	11-12	36 50.1	53.9	50.00	0.03	36 50.4	54.2	50.30	...	
35	12	36 58.0	61.9	57.95	0.03	...	...	...	...
36	1	38 19.7	23.7	19.70	0.04	...	...	...	...
37	13	...	...	...	...	38 20.1	24.2	20.10	...	
38	9-11	38 22.9	26.8	22.85	0.04	38 23.0	27.2	22.90	...	
39	12-13	...	...	59.65	0.04	39 0.1	3.9	...	...
40	11-13	...	...	54.85	0.05	39 55.2	59.1	...	...
	12-14	...	...	42.05	0.05	40 42.9	46.6	...	...
	13-14	...	...	2.60	0.05	...	...	...	...
	...	...	...	9.90	0.05	41 25.4	29.2	...	...
	...	...	...	15	0.05	41 ...	35.7	...	...
	...	...	...	...	-0.06	0 42 40.2	44.2	...	...

Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

				REMARKS.
				"
				... Starless field.
				... Slight haze. Seen, not observed.
				...
	1.6	— 5.8		Instrument jarred in zone 148.
	1.3	— 1.2		Starless field.
	...	...		Moonlight interferes.
	13.6	— 4.0		Starless field.
	18.6	— 0.8		
	61.7	— 2.9		
	...	...		} Seen, but not observed.
		
	54.9	— 1.0		
	35.4	...		
	35.5	34.6	+ 0.9	
	55.5	52.5	+ 3.0	
	23.3	34.3	...	Declination in zone 148 correct.
	24.7	...	...
	42.1	43.7	— 1.6	
	37 8.7	...	...	Starless field.
	53 11.0	12.4	— 1.4	Readjusted focus in zone 147.
	59 1.5	1.9	— 0.4	No star above 15th mag.
	49 36.4	...	...	Seen, but not observed.
	51 32.2	33.8	— 1.6	
	54 8.9	11.0	— 2.1	
	49 54.3	54.2	+ 0.1	
	50 34.2	35.0	— 0.8	
	56 10.6	11.4	— 0.8	
	55 34.7	...	...
	55 25.7	26.5	— 0.8	
	53 36.8	...	...
	53 45.8	46.9	— 1.1	Starless field.
	53 54.7	...	...
	56 25.4	...	...
	59 22.1	24.2	— 2.1	
	1 0 9.0	9.0	0.0	
	55 35.4	35.2	+ 0.2	
	50 36.9	...	...
	8.0	0 56 6.3	9.0	— 2.7 Close comp., p.
	7.1	0 52 45.7	49.9	— 4.2 No star above 15th mag.
	...	0 51 15.8	...	...
	8.4	0 57	1.6	...
50	— 7.7	+ 0 54 40.4	42.3	— 1.9

A.R. ^{h.} 0 ^{m.} 10 to ^{h.} 2 ^{m.} 13.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 147.					ZONE 148.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	Zone 147.	Zone 148.				
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.			
46	14	0 43 20.4	24.6	20.50	-0.05	.....	.....	.....	.....	0 43 20.45	.....	.....	
47	14	43 52.0	56.0	52.00	0.06	.....	.....	.....	.....	43 51.94	.....	.....	
48	....	45 15.7	19.7	15.70	0.07	.....	.....	.....	.....	45 15.63	.....	.....	
49	14	47 49.4	53.5	49.45	0.07	.....	.....	.....	.....	47 49.38	.....	.....	
50	12-14	48 11.2	15.0	11.10	0.08	0 48	15.6	11.60	-0.31	48 11.02	11.29	-0.27			
51	11-12	49 12.7	16.5	12.60	0.09	49 12.8	16.8	12.80	0.31	49 12.51	12.49	+0.02			
52	10-11	49 36.8	40.8	36.80	0.08	49 37.1	41.1	37.10	0.32	49 36.72	36.78	-0.06			
53	14	.....	.....	.....	.....	50 59.7	63.8	59.75	0.33	50	59.42	.....		
54	10-11	51 37.5	41.4	37.45	0.09	51 37.9	41.9	37.90	0.33	51 37.36	37.57	-0.21			
55	11-12	52 59.4	63.3	59.35	0.10	52 59.8	63.7	59.75	0.34	52 59.25	59.41	-0.16			
56	12-13	53 26.0	30.1	26.05	0.10	53 26.3	30.4	26.35	0.34	53 25.95	26.01	-0.06			
57	14	54 14.0	17.9	13.95	0.10	.....	.....	.....	.....	54 13.85	.....	.....	
58	14	54 35.5	39.3	35.40	0.11	.....	.....	.....	.....	54 35.29	.....	.....	
59	14	54 53.5	57.5	53.50	0.11	.....	.....	.....	.....	54 53.39	.....	.....	
60	10-11	55 15.5	19.4	15.50	0.11	55 15.7	19.8	15.75	0.36	55 15.39	15.39	0.00			
61	14	56 4.0	7.9	3.95	0.12	.....	.....	.....	.....	56 3.83	.....	.....	
62	12	56 32.5	36.6	32.55	0.11	56 33.0	36.9	32.95	0.37	56 32.44	32.58	-0.14			
63	10-11	57 34.2	38.3	34.25	0.12	57 34.7	38.7	34.70	0.37	57 34.13	34.33	-0.20			
64	12-13	58 47.2	51.1	47.15	0.13	58 47.8	51.8	47.80	0.38	58 47.02	47.42	-0.40			
65	11	58 49.3	53.3	49.30	0.13	58 49.9	53.7	49.80	0.38	58 49.17	49.42	-0.25			
66	12	59 16.1	20.1	16.10	0.13	0 59 16.4	20.5	16.45	0.38	59 15.97	16.07	-0.10			
67	12-13	0 59 27.0	31.0	27.00	0.13	.....	.....	.....	.....	0 59 26.87	.....	.....	
68	11-12	1 1 30.2	34.2	30.20	0.14	1 1 30.5	34.7	30.60	0.40	1 1 30.06	30.20	-0.14			
69	12-13	1 43.2	47.3	43.25	0.15	1 43.8	47.8	43.80	0.40	1 43.10	43.40	-0.30			
70	13	3 18.9	23.0	18.95	0.14	.....	.....	.....	.....	3 18.81	.....	.....	
71	12-13	3 44.1	48.1	44.10	0.15	3 44.6	48.6	44.60	0.41	3 43.95	44.19	-0.24			
72	11-12	5 15.5	19.6	15.55	0.16	5 15.9	19.9	15.90	0.43	5 15.39	15.47	-0.08			
73	13-14	5 54.9	58.9	54.90	0.15	5 55.6	59.6	55.60	0.43	5 54.75	55.17	-0.42			
74	13-14	6 13.8	18.0	13.90	0.16	6 14.3	18.5	14.40	0.43	6 13.74	13.97	-0.23			
75	11	6 51.1	55.1	51.10	0.16	6 51.6	55.5	51.55	0.44	6 50.94	51.11	-0.17			
76	13	7 32.8	36.6	32.70	0.17	.....	.....	.....	.....	7 32.53	.....	.....	
77	12-13	8 36.8	40.7	36.75	0.17	8 37.2	41.0	37.10	0.45	8 36.58	36.65	-0.07			
78	13-14	9 20.5	24.3	20.40	0.17	.....	.....	.....	.....	9 20.23	.....	.....	
79	13-14	11 40.7	44.3	40.50	0.18	11 40.8	45.0	40.90	0.47	11 40.32	40.43	-0.11			
80	13-14	13 30.1	34.2	30.15	0.19	.....	.....	.....	.....	13 29.96	.....	.....	
81	13	14 39.7	43.4	39.55	0.20	.....	.....	.....	.....	14 39.35	.....	.....	
82	6	15 22.0	26.0	22.00	0.20	15	26.1	22.10	0.50	15 21.80	21.60	+0.20			
83	10-11	15 42.2	46.2	42.20	0.21	15 42.4	46.4	42.40	0.50	15 41.99	41.90	+0.09			
84	12	16 16.0	20.0	16.00	0.21	16 16.1	20.3	16.20	0.50	16 15.79	15.70	+0.09			
85	12-13	17 23.9	27.8	23.85	0.21	.....	.....	.....	.....	17 23.64	.....	.....	
86	11-12	18 1.1	5.2	1.15	0.22	18 1.6	5.7	1.65	0.52	18 0.93	1.13	-0.20			
87	12-13	18 37.6	41.7	37.65	0.22	18 38.3	42.2	38.25	0.52	18 37.43	37.73	-0.30			
88	13-14	19 44.1	48.2	44.15	0.22	.....	.....	.....	.....	19 43.93	.....	.....	
89	12-13	20 22.0	26.0	22.00	0.23	.....	.....	.....	.....	20 21.77	.....	.....	
90	11-12	1 21 13.3	17.3	13.30	-0.23	1 21 13.9	17.7	13.80	-0.54	1 21 13.07	13.26	-0.19			

A.R. ^{h.}0 ^{m.}10 to ^{h.}2 ^{m.}13.

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 147.	d.	Zone 148.	d.	Zone 147.	Zone 148.		
46	+ 1 30	- 3.4	....	...	+ 0 51 26.6	....	...	Starless field.
47	1 19	3.4	....	...	0 51 15.6	....	...
48	10 40	4.4	....	...	1 0 35.6	....	...
49	2 11	3.6	....	...	0 52 7.4	....	...
50	6 40	4.0	....	...	0 56 36.0	....	...
51	8 10	4.2	+ 8 19	- 7.4	0 58 5.8	11.6	- 5.8	Instrument jarred in zone 148.
52	5 9	3.9	5 13	6.7	0 55 5.1	6.3	- 1.2	Starless field.
53	3 4	3.7	2 5	...	0 53 0.3	....	...	Moonlight interferes.
54	0 3	3.4	0 9	5.4	0 49 59.6	63.6	- 4.0	Starless field.
55	7 22	4.2	7 26	7.4	0 57 17.8	18.6	- 0.8	
56	7 3	4.2	7 9	7.3	0 56 58.8	61.7	- 2.9	
57	1 20	3.6	....	...	0 51 16.4	....	...	Seen, but not observed.
58	3 37	3.9	....	...	0 53 33.1	....	...
59	2 10	3.7	....	...	0 52 6.3	....	...
60	5 58	4.1	+ 6 2	7.1	0 55 53.9	54.9	- 1.0	
61	+10 30	4.6	....	...	1 0 25.4	....	...
62	- 0 21	3.5	- 0 20	5.4	0 49 35.5	34.6	+ 0.9	
63	- 0 1	3.5	- 0 2	5.5	0 49 55.5	52.5	+ 3.0	
64	+ 1 27	3.7	+ 0 40	5.7	0 51 23.3	34.3	...	Declination in zone 148 correct.
65	7 29	4.3	....	...	0 57 24.7	....	...
66	2 46	3.9	2 50	6.3	0 52 42.1	43.7	- 1.6	Starless field.
67	7 13	4.3	....	...	0 57 8.7	....	...	Readjusted focus in zone 147.
68	3 15	4.0	3 19	6.6	0 53 11.0	12.4	- 1.4	No star above 15th mag.
69	+ 9 6	4.5	9 10	8.1	0 59 1.5	1.9	- 0.4	Seen, but not observed.
70	- 0 20	3.6	....	...	0 49 36.4	....	...
71	+ 1 36	3.8	1 40	6.2	0 51 32.2	33.8	- 1.6	
72	+ 4 13	4.1	4 18	7.0	0 54 8.9	11.0	- 2.1	
73	- 0 2	3.7	0 0	5.8	0 49 54.3	54.2	+ 0.1	
74	+ 0 38	3.8	0 41	6.0	0 50 34.2	35.0	- 0.8	
75	6 15	4.4	6 19	7.6	0 56 10.6	11.4	- 0.8	
76	5 39	4.3	....	...	0 55 34.7	....	...	Starless field.
77	5 30	4.3	5 34	7.5	0 55 25.7	26.5	- 0.8	
78	3 41	4.2	....	...	0 53 36.8	....	...
79	3 50	4.2	3 54	7.1	0 53 45.8	46.9	- 1.1	
80	3 59	4.3	....	...	0 53 54.7	....	...
81	6 30	4.6	....	...	0 56 25.4	....	...
82	9 27	4.9	9 33	8.8	0 59 22.1	24.2	- 2.1	
83	10 14	5.0	10 18	9.0	1 0 9.0	9.0	0.0	
84	5 40	4.6	5 43	7.8	0 55 35.4	35.2	+ 0.2	
85	0 41	4.1	....	...	0 50 36.9	....	...
86	6 11	4.7	6 17	8.0	0 56 6.3	9.0	- 2.7	Close comp., p.
87	2 50	4.3	2 57	7.1	0 52 45.7	49.9	- 4.2	No star above 15th mag.
88	1 20	4.2	....	...	0 51 15.8	....	...
89	7 ..	...	7 10	8.4	0 57	1.6	...	
90	+ 4 45	- 4.6	+ 4 50	- 7.7	+ 0 54 40.4	42.3	- 1.9	

A.R. ^{h.} 0 ^{m.} 10 to ^{h.} 2 ^{m.} 13.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 147.					ZONE 148.					MEAN RIGHT ASCENSION 1859.0					Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 147.	Zone 148.						
		h. m. s.	s.	s.	k.	h. m. s.	s.	s.	k.	h. m. s.	s.	s.					
91	12	1 21 24.6	28.6	24.60	-0.23	.....	.....	.....	.....	1 21 24.37	.....	.....			
92	12	22 20.3	24.2	20.25	0.23	1 22 20.7	24.8	20.75	-0.55	22 20.02	20.20	-0.18					
93	14	23	38.2	34.20	0.24	.....	.....	.....	.....	23 33.96	.....	.....			
94	....	23 54.5	58.5	54.50	0.24	23 54.9	55.8	54.85	0.56	23 54.26	54.29	-0.03				
95	10-11	24 8.3	12.1	8.20	0.24	24 8.6	12.3	8.45	0.56	24 7.96	7.89	+0.07					
96	....	24 9.8	13.6	9.70	0.25	.....	.....	.....	.....	24 9.45	.....	.....			
97	10-12	24 52.4	56.3	52.35	0.25	24 52.9	56.7	52.80	0.56	24 52.10	52.24	-0.14					
98	8-11	25 4.2	8.2	4.20	0.24	25 4.7	8.7	4.70	0.57	25 3.96	4.13	-0.17					
99	11	25 55.0	58.6	54.80	0.25	25 55.2	....	55.20	0.57	25 54.55	54.63	-0.08				
100	13	27 11.0	15.0	11.00	0.25	27 11.7	15.6	11.65	0.58	27 10.75	11.07	-0.32					
101	11-12	27 44.2	48.2	44.20	0.26	27 44.6	48.5	44.55	0.58	27 43.94	43.97	-0.03					
102	14	28 34.6	38.7	34.65	0.26	.....	.....	.....	.....	28 34.39	.....	.....			
103	....	.....	.....	.....	0.26	29 10.1	14.2	10.15	0.59	29	9.56	.....				
104	12-13	29 56.8	60.6	56.70	0.27	29 57.0	61.1	57.05	0.60	29 56.43	56.45	-0.02					
105	....	.....	.....	.....	.....	30 4.7	9.0	4.85	0.60	30	4.25	.....				
106	12-13	30 23.6	27.5	23.55	0.27	30 23.8	28.0	23.90	0.60	30 23.28	23.30	-0.02					
107	12	31 40.0	44.1	40.05	0.28	31 40.6	44.6	40.60	0.61	31 39.77	39.09	-0.22					
108	11-12	32 49.2	53.2	49.20	0.28	32 49.8	53.9	49.85	0.62	32 48.92	49.23	-0.31					
109	12	33 19.6	23.3	19.45	0.29	.....	.....	.....	.....	33 19.16	.....	.....			
110	11	33 21.6	25.5	21.55	0.28	33 22.1	....	22.10	0.63	33 21.27	21.47	-0.20				
111	8-9	33 36.9	41.1	37.00	0.28	33 37.5	41.3	37.40	0.63	33 36.71	36.77	-0.06					
112	12-13	34 7.9	11.7	7.80	0.29	34 8.0	12.1	8.05	0.63	34 7.51	7.42	+0.09					
113	14	34 48.8	52.7	48.75	0.29	.....	.....	.....	.....	34 48.46	.....	.....			
114	....	.....	.....	.....	.....	35 22.0	26.1	22.05	0.64	35	21.41	.....				
115	13	37 38.0	48.0	38.00	0.30	37 38.6	42.6	38.60	0.66	37 37.70	37.94	-0.24					
116	12	38 27.9	31.8	27.85	0.31	38 28.4	32.4	28.40	0.67	38 27.54	27.73	-0.19					
117	11	38 45.0	49.0	45.00	0.31	38 45.4	49.4	45.40	0.67	38 44.69	44.73	-0.04					
118	12-13	41 37.3	41.4	37.35	0.32	41 38.0	42.1	38.05	0.69	41 37.03	37.36	-0.33					
119	12-13	41 54.8	58.7	54.75	0.32	41 55.1	59.1	55.10	0.69	41 54.43	54.41	+0.02					
120	12	42 20.9	24.8	20.85	0.33	42 21.3	25.3	21.30	0.70	42 20.52	20.60	-0.08					
121	12	43 7.0	11.1	7.05	0.32	43 7.6	11.6	7.60	0.70	43 6.73	6.90	-0.17					
122	12	43 35.5	....	35.50	0.33	43 36.5	40.1	36.30	0.71	43 35.17	35.59	-0.42				
123	12	45 4.3	8.1	4.20	0.34	.....	.....	.....	.....	45 3.86	.....	.....			
124	14	46 7.0	11.0	7.00	0.33	46 7.4	11.4	7.40	0.72	46 6.67	6.68	-0.01					
125	13-14	46 38.6	42.3	38.45	0.34	46 38.8	42.9	38.85	0.73	46 38.11	38.12	-0.01					
126	10-11	47 8.1	12.3	8.20	0.34	47 8.8	12.8	8.80	0.73	47 7.86	8.07	-0.21					
127	9-10	47 14.0	18.0	14.00	0.35	47 14.2	18.2	14.20	0.73	47 13.65	13.47	+0.18					
128	10-12	47 38.1	42.1	38.10	0.34	47 38.5	42.5	38.50	0.73	47 37.76	37.77	-0.01					
129	12-13	48 33.0	37.1	33.05	0.34	48 33.6	37.6	33.60	0.74	48 32.71	32.86	-0.15					
130	9-10	49 26.5	30.6	26.55	0.35	49 26.8	30.8	26.80	0.75	49 26.20	26.05	+0.15					
131	12	49 44.3	48.3	44.30	0.36	49 44.7	48.6	44.65	0.75	49 43.94	43.90	+0.04					
132	10	49 52.8	56.8	52.80	0.36	49 53.1	57.0	53.05	0.75	49 52.44	52.30	+0.14					
133	12	50 16.8	20.8	16.80	0.36	50 17.2	21.0	17.10	0.75	50 16.44	16.35	+0.09					
134	....	50 28.2	32.2	28.20	0.36	1 50 28.2	32.4	28.30	-0.75	50 27.84	27.55	+0.29				
135	12	152 4.1	8.0	4.05	-0.36	.....	.....	.....	.....	1 52 3.69	.....	.....			

A.R. $\overset{h}{0} \overset{m}{10}$ to $\overset{h}{9} \overset{m}{13}$.Dec. $+\overset{\circ}{0} \overset{'}{50}$ to $\overset{\circ}{1} \overset{'}{0}$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 147.	d.	Zone 148.	d.	Zone 147.	Zone 148.		
91	+ 1 8	- 4.2	+ 1 10	- 6.8	+ 0 51 3.8	3.2	+ 0.6	Double?
92	3 39	4.5	3 40	7.5	0 53 34.5	32.5	+ 2.0	Focus readjusted, zone 148.
93	1 35	4.3	....	...	0 51 30.7	....	...	Moon up.
94	3 58	4.6	....	...	0 53 53.4	....	...
95	5 53	4.8	5 58	8.1	0 55 48.2	49.9	- 1.7	
96	....	...	9 43	9.2	0 59	33.8	...	
97	6 7	4.8	6 10	8.2	0 56 2.2	1.8	+ 0.4	
98	0 48	4.3	0 53	6.8	0 50 43.7	46.2	- 2.5	
99	10 28	5.3	10 31	9.4	1 0 22.7	21.6	+ 1.1	
100	0 0	5.2	0 3	6.6	0 49 54.8	56.4	- 1.6	
101	7 8	5.0	7 9	8.6	0 57 3.0	0.4	+ 2.6	
102	2 50	4.6	....	...	0 52 45.4	....	...
103	....	...	6 56	8.6	0 56	47.4	...	
104	5 10	4.8	5 12	8.1	0 55 5.2	3.9	+ 1.3	
105	....	...	4 8	7.8	0 54	0.2	...	
106	5 0	4.8	5 2	8.1	0 54 55.2	53.9	+ 1.3	
107	10 14	5.4	10 19	9.6	1 0 8.6	9.4	- 0.8	
108	1 44	4.5	1 48	7.3	0 51 39.5	40.7	- 1.2	
109	9 5	5.3	....	...	0 58 59.7	....	...
110	2 31	4.6	2 44	7.6	0 52 26.4	36.4	...	
111	4 49	4.9	4 51	8.2	0 54 44.1	42.8	+ 1.3	
112	8 0	5.2	8 3	9.1	0 57 54.8	53.9	+ 0.9	
113	+ 7 24	5.1	....	...	0 57 18.9	....	...	Declination doubtful.
114	....	...	+10 33	9.8	1 0	23.2	...	Starless field.
115	- 0 10	4.4	- 0 8	7.0	0 49 45.6	45.0	+ 0.6	
116	+ 6 14	5.1	+ 6 18	8.7	0 56 8.9	9.3	- 0.4	Wind rising, zone 148.
117	+ 5 34	5.0	+ 5 39	8.6	0 55 29.0	30.4	- 1.4	Haze, zone 147.
118	- 0 21	4.5	- 0 18	7.1	0 49 34.5	34.9	- 0.4	
119	+ 3 45	4.9	+ 3 48	8.2	0 53 40.1	39.8	+ 0.3	
120	7 42	5.3	7 43	9.2	0 57 36.7	33.8	+ 2.9	
121	2 58	4.9	3 1	8.0	0 52 53.1	53.0	+ 0.1	
122	2 58	4.9	2 59	8.0	0 52 53.1	51.0	+ 2.1	
123	10 33	5.7	....	...	1 0 27.3	....	...
124	0 57	4.7	0 58	7.5	0 50 52.3	50.5	+ 1.8	
125	6 0	5.2	6 2	8.9	0 55 54.8	53.1	+ 1.7	
126	3 4	5.0	3 7	8.1	0 52 59.0	58.9	+ 0.1	
127	8 2	5.4	8 6	9.5	0 57 56.6	56.5	+ 0.1	
128	+ 4 41	5.1	+ 4 46	8.6	0 54 35.9	37.4	- 1.5	
129	- 0 21	4.6	- 0 19	7.3	0 49 34.4	33.7	+ 0.7	Telescope moved in R.A., zone 147.
130	+ 7 2	5.4	+ 7 6	9.3	0 56 56.6	56.7	- 0.1	
131	7 36	5.4	7 38	9.4	0 57 30.6	28.6	+ 2.0	
132	9 31	5.7	9 37	10.0	0 59 25.3	27.0	- 1.7	
133	+ 9 10	5.6	9 9	9.9	0 58 64.4	59.1	+ 5.3	
134	....	...	+ 9 48	-10.1	0 59	37.9	...	
135	- 0 15	- 4.7	....	...	+ 0 49 40.3	....	...

A.R. ^{h.}0 ^{m.}10 to ^{h.}2 ^{m.}13.Dec. +⁰56 to ¹0.

Number of the Star.	Magnitude.	ZONE 147.					ZONE 148.					MEAN RIGHT ASCENSION. 1859.0			Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 147.	Zone 148.				
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.		
136	12	1 52 52.0	56.0	52.00	-0.36	1 52 52.3	56.2	52.25	-0.77	1 52 51.64	51.48	+0.16			
137	.....	.....	.....	.....	.....	52 59.8	63.5	59.65	0.77	52	58.88	.....		
138	13	53 26.4	30.2	26.30	0.37	53 26.7	30.9	26.80	0.77	53 25.93	26.03	-0.10			
139	12-13	54 5.4	9.6	5.50	0.37	54 5.9	10.0	5.95	0.78	54 5.13	5.17	-0.04			
140	11	56 11.3	15.6	11.45	0.39	56 12.0	16.1	12.05	0.79	56 11.06	11.26	-0.20			
141	.....	56 18.5	22.3	18.40	0.39	56 18.8	22.8	18.80	0.79	56 18.01	18.01	0.00		
142	8-9	56 48.1	52.2	48.15	0.39	56 48.6	52.6	48.60	0.80	56 47.76	47.80	-0.04			
143	12-13	58 4.2	8.2	4.20	0.39	58 4.7	8.9	4.80	0.81	58 3.81	3.99	-0.18			
144	12	1 59 37.3	41.2	37.25	0.41	1 59 37.7	.....	37.70	0.82	1 59 36.84	36.88	-0.04		
145	12-13	2 0 55.1	59.0	55.05	0.41	2 0 55.3	59.4	55.35	0.83	2 0 54.64	54.52	+0.12			
146	.....	.....	.....	.....	.....	2 48.6	52.7	48.65	0.84	2	47.81	.....		
147	.....	.....	.....	.....	.....	3 56.1	60.2	56.15	0.85	3	55.30	.....		
148	.....	.....	.....	.....	.....	4 3.3	7.1	3.20	0.85	4	2.35	.....		
149	12-13	5 44.9	48.9	44.90	0.43	5 45.2	49.2	45.20	0.86	5 44.47	44.34	+0.13			
150	12	6 54.0	57.8	53.90	0.43	6 54.4	58.5	54.45	0.87	6 53.47	53.58	-0.11			
151	12	8 1.9	5.9	1.90	0.44	8 2.2	6.4	2.30	0.88	8 1.46	1.42	+0.04			
152	9-11	8 32.4	36.4	32.40	0.44	8 32.5	36.6	32.55	0.88	8 31.96	31.67	+0.29			
153	11-12	9 23.4	27.3	23.35	0.44	9 23.9	27.9	23.90	0.89	9 22.91	23.01	-0.10			
154	8-10	9 57.1	61.0	57.05	0.44	9 57.4	61.6	57.50	0.89	9 56.61	56.61	0.00			
155	11-12	12 29.7	33.6	29.65	0.45	.....	.....	.....	.....	12 29.20	.....	.....	
156	12	13 5.3	9.2	5.25	0.46	13 5.8	9.8	5.80	0.91	13 4.79	4.89	-0.10			
157	10	13 9.8	13.7	9.75	0.46	13 10.3	14.3	10.30	0.91	13 9.29	9.39	-0.10			
158	11-12	2 13 48.7	52.4	48.55	-0.47	2 13 48.9	53.0	48.95	-0.92	2 13 48.08	48.03	+0.05			

A.R. $\overset{h}{0} \overset{m}{10}$ to $\overset{h}{9} \overset{m}{13}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 147.	d.	Zone 148.	d.	Zone 147.	Zone 148.		
136	+ 0 49	- 4.8	+ 0 53	- 7.8	+ 0 50 44.2	45.2	- 1.0	Starless field.
137	....	...	3 0	8.3	0 52	51.7	...
138	0 0	4.8	0 2	7.5	0 49 55.2	54.5	+ 0.7	
139	0 59	4.9	0 58	7.8	0 50 54.1	50.2	+ 3.9	
140	5 17	5.3	5 19	9.1	0 55 11.7	9.9	+ 1.8	
141	5 52	5.4	5 57	9.3	0 55 46.6	47.7	- 1.1	Declination doubtful in zone 147. " " " "
142	5 21	5.4	5 25	9.1	0 55 15.6	15.9	- 0.3	
143	4 14	5.3	4 16	8.9	0 54 8.7	7.1	+ 1.6	
144	10 30	5.9	10 30	10.6	1 0 24.1	19.6	+ 4.5	
145	4 50	5.4	4 51	9.2	0 54 44.6	41.8	+ 2.8	
146	6 5	9.5	0 55	55.5	...	Starless field.
147	10 3	10.6	0 59	52.4	...	Hazy in zone 147.
148	9 10	10.4	0 58	59.6	...	Comp., s. f., 14th mag.
149	2 53	5.3	2 56	8.8	0 52 47.7	47.2	+ 0.5	Starless field.
150	3 37	5.4	3 40	9.0	0 53 31.6	31.0	+ 0.6	
151	7 0	5.8	7 1	9.9	0 56 54.2	51.1	+ 3.1	
152	10 2	6.1	10 0	10.7	0 59 55.9	49.3	+ 6.6	
153	6 47	5.8	6 50	9.9	0 56 41.2	40.1	+ 1.1	
154	1 18	5.2	1 20	8.5	0 51 12.8	11.5	+ 1.3	Thick haze, zone 147. Observations difficult on account of cold. Stars out of focus; scale in focus.
155	2 49	5.4	2 51	9.0	0 52 43.6	42.0	+ 1.6	
156	7 20	5.9	7 20	10.2	0 57 14.1	9.8	+ 4.3	
157	6 33	5.8	6 35	10.0	0 56 27.2	25.0	+ 2.2	
158	+ 8 39	- 6.0	+ 8 44	-10.6	+ 0 58 33.0	33.4	- 0.4	

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +⁰40 to ⁰50.

Number of the Star.	Magnitude.	ZONE 149.						ZONE 150.						MEAN RIGHT ASCENSION. 1859.0				Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 149.		Zone 150.		
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	
1	10	23	44	55.4	59.5	55.45	-2.16	23	44	55.8	59.9	55.85	-2.67	23	44	53.29	53.18	+0.11
2	8-9		45	6.0	10.0	6.00	2.16		45	6.5	10.5	6.50	2.68		45	3.84	3.82	+0.02
3	12-13		45	33.6	37.5	33.55	2.17		45	34.0	38.1	34.05	2.68		45	31.38	31.37	+0.01
4	11-12		46	53.5	57.3	53.40	2.18		46	54.0	58.0	54.00	2.69		46	51.22	51.31	-0.09
5	12		47	32.7	37.0	32.85	2.18		47	33.3	37.3	33.30	2.70		47	30.67	30.60	+0.07
6	11-12		48	56.2	60.1	56.15	2.19		48	56.6	60.6	56.60	2.71		48	53.96	53.89	+0.07
7	12		49	47.7	51.6	47.65	2.20		49	48.2	52.3	48.25	2.72		49	45.45	45.53	-0.08
8	.....		.....	.....	.....	.....	.....		51	10.2	14.4	10.30	2.73		51	.....	7.57	.....
9	11		51	11.2	15.1	11.15	2.22		51	11.8	15.4	11.60	2.73		51	8.93	8.87	+0.06
10	11-12		51	24.0	28.0	24.00	2.23		.....	.....	.....	.....	.....		51	21.77	.....	.....
11	13		52	51.8	55.8	51.80	2.25		.....	.....	.....	.....	.....		52	49.55	.....	.....
12	13		53	53.3	57.3	53.30	2.26		.....	.....	.....	.....	.....		53	51.04	.....	.....
13	11-12		54	39.8	43.7	39.75	2.26		54	40.3	44.3	40.30	2.77		54	37.49	37.53	-0.04
14	12-13		55	14.7	18.8	14.75	2.27		55	15.4	19.4	15.40	2.77		55	12.48	12.63	-0.15
15	12		55	55.9	60.0	55.95	2.28		55	56.5	60.6	56.55	2.78		55	53.67	53.77	-0.10
16	9-10		56	28.3	32.2	28.25	2.28		56	28.8	32.7	28.75	2.78		56	25.97	25.97	0.00
17	12		56	55.5	.....	55.50	2.30		56	56.1	.....	56.10	2.79		56	53.20	53.31	-0.11
18	12		56	59.3	63.0	59.15	2.29		56	59.7	63.7	59.70	2.79		56	56.86	56.91	-0.05
19	9-10		57	35.8	39.9	35.85	2.30		57	36.2	40.2	36.20	2.80		57	33.55	33.40	+0.15
20	.....		59	3.6	7.4	3.50	2.33		59	3.8	7.9	3.85	2.81		59	1.17	1.04	+0.13
21	12	23	59	41.5	45.4	41.45	2.33	23	59	41.9	46.0	41.95	2.82	23	59	39.12	39.13	-0.01
22	12-13	0	0	9.6	13.6	9.60	2.34	0	0	10.3	14.2	10.25	2.82	0	0	7.26	7.43	-0.17
23	13-14		1	56.3	60.6	56.45	2.36		1	56.9	60.9	56.90	2.84		1	54.09	54.06	+0.03
24	12-13		3	19.0	.....	19.00	2.38		3	19.8	23.5	19.65	2.85		3	16.62	16.80	-0.18
25	12		4	28.6	32.3	28.45	2.39		4	29.1	33.2	29.15	2.86		4	26.06	26.29	-0.23
26	.....		4	50.0	53.8	49.90	2.40		4	50.8	.....	50.80	2.87		4	47.50	47.93	-0.43
27	11		4	57.9	61.8	57.85	2.38		4	58.2	62.2	58.20	2.87		4	55.47	55.43	+0.04
28	12-13		6	11.8	.....	11.80	2.41		6	12.2	16.0	12.10	2.88		6	9.39	9.22	+0.17
29	12		6	17.3	21.3	17.30	2.41		6	17.9	21.9	17.90	2.88		6	14.89	15.02	-0.13
30	11-12		6	23.3	.....	23.30	2.41		6	24.1	27.9	24.00	2.88		6	20.89	21.12	-0.23
31	12-13		6	40.8	44.7	40.75	2.42		6	41.3	45.3	41.30	2.89		6	38.33	38.41	-0.08
32	10-12		7	31.3	35.3	31.30	2.41		7	31.9	35.9	31.90	2.90		7	28.89	29.00	-0.11
33	13		8	9.7	13.9	9.80	2.42		8	10.4	14.2	10.30	2.90		8	7.38	7.40	-0.02
34	13		8	23.3	27.2	23.25	2.43		8	23.8	27.7	23.75	2.90		8	20.82	20.85	-0.03
35	12-13		8	42.9	47.1	43.00	2.44		8	43.8	47.6	43.70	2.91		8	40.56	40.79	-0.23
36	12-13		8	48.2	51.9	48.05	2.45		8	48.7	52.4	48.55	2.91		8	45.60	45.64	-0.04
37	12		9	10.5	14.3	10.40	2.44		9	10.8	14.9	10.85	2.91		9	7.96	7.94	+0.02
38	.....		9	19.9	23.7	19.80	2.43		9	20.3	24.1	20.20	2.91		9	17.37	17.29	+0.08
39	13		9	54.6	58.4	54.50	2.45		9	54.8	58.9	54.85	2.92		9	52.05	51.93	+0.12
40	12		10	44.1	48.0	44.05	2.46		10	44.6	48.5	44.55	2.93		10	41.59	41.62	-0.03
41	11-12		11	22.5	26.4	22.45	2.47		11	22.9	26.8	22.85	2.93		11	19.98	19.92	+0.06
42	12-13		11	31.4	35.3	31.35	2.47		11	31.7	35.8	31.75	2.94		11	28.88	28.81	+0.07
43	12		12	9.4	13.4	9.40	2.48		12	9.9	13.9	9.90	2.94		12	6.92	6.96	-0.04
44	8-9		12	46.2	50.2	46.20	2.47		12	46.8	50.7	46.75	2.95		12	43.73	43.80	-0.07
45	12-13	0	13	38.8	42.8	38.80	-2.49	0	13	39.4	43.3	39.35	-2.96	0	13	36.31	36.39	-0.08

A.R. $23^{\text{h}} 44^{\text{m}}$ to $1^{\text{h}} 44^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
1	+ 3 50	-37.6	+ 3 50	-38.9	+ 0 43 12.4	11.1	+ 1.3	
2	3 29	37.5	3 28	38.8	0 42 51.5	49.2	+ 2.3	
3	0 50	36.9	....	....	0 40 13.1	....	...
4	7 59	38.6	7 59	39.9	0 47 20.4	19.1	+ 1.3	
5	8 54	38.8	8 52	40.1	0 48 15.2	11.9	+ 3.3	
6	7 9	38.4	7 10	39.6	0 46 30.6	30.4	+ 0.2	Comp., n. f., 10", 14th mag.
7	7 52	38.6	7 51	39.8	0 47 13.4	11.2	+ 2.2	
8	....	....	5 42	39.3	0 45	2.7	...	Comp. slightly s. p., 14th mag.
9	9 3	38.9	9 3	40.1	0 48 24.1	22.9	+ 1.2	Comp., n. p., 12".
10	4 34	37.8	....	....	0 43 56.2	....	...	Position of lamp changed, zone 150.
11	1 30	37.1	1 33	38.2	0 40 52.9	54.8	- 1.9	
12	5 8	37.9	....	....	0 44 30.1	....	...	Declination doubtful.
13	7 45	38.6	7 44	39.7	0 47 6.4	4.3	+ 2.1	
14	4 51	37.9	4 49	39.0	0 44 13.1	10.0	+ 3.1	
15	5 21	38.0	5 22	39.1	0 44 43.0	42.9	+ 0.1	
16	8 40	38.8	8 40	39.9	0 48 1.2	0.1	+ 1.1	
17	1 1	36.9	1 2	38.1	0 40 24.1	23.9	+ 0.2	
18	7 8	38.4	7 7	39.5	0 46 29.6	27.5	+ 2.1	
19	5 47	38.1	5 48	39.2	0 45 8.9	8.8	+ 0.1	No stars above 14th mag.
20	....	....	0 49	38.0	0 40	11.0	...	
21	3 23	37.5	3 23	38.6	0 42 45.5	44.4	+ 1.1	
22	2 34	37.3	2 35	38.4	0 41 56.7	56.6	+ 0.1	Starless field.
23	+ 0 59	36.9	+ 0 58	38.0	0 40 22.1	20.0	+ 2.1	No star above 13th mag.
24	- 0 26	36.6	- 0 27	37.7	0 38 57.4	55.3	+ 2.1	
25	+ 0 21	36.8	+ 0 22	37.9	0 39 44.2	44.1	+ 0.1	
26	....	....	0 28	37.9	0 39	50.1	...	
27	7 59	38.6	7 59	39.7	0 47 20.4	19.3	+ 1.1	
28	2 4	37.2	2 3	38.3	0 41 26.8	24.7	+ 2.1	
29	2 34	37.3	2 36	38.4	0 41 56.7	57.6	- 0.9	
30	3 25	37.5	3 28	38.6	0 42 47.5	49.4	- 1.9	Comp. f. slightly n., 23".
31	1 39	37.1	1 38	38.2	0 40 61.9	59.8	+ 2.1	
32	10 30	39.2	10 31	40.3	0 49 50.8	50.7	+ 0.1	
33	8 29	38.7	8 30	39.8	0 47 50.3	50.2	+ 0.1	
34	6 11	38.2	6 12	39.3	0 45 32.8	32.7	+ 0.1	
35	0 28	36.8	0 30	37.9	0 39 51.2	52.1	- 0.9	
36	0 58	36.9	1 0	38.0	0 40 21.1	22.0	- 0.9	
37	5 10	37.9	5 11	39.0	0 44 32.1	32.0	+ 0.1	
38	....	....	9 41	40.1	0 49	0.9	...	
39	5 16	38.0	5 18	39.1	0 44 38.0	38.9	- 0.9	
40	2 47	37.4	2 48	38.5	0 42 9.6	9.5	+ 0.1	
41	4 19	37.7	4 19	38.8	0 43 41.3	40.2	+ 1.1	
42	3 50	37.6	3 51	38.7	0 43 12.4	12.3	+ 0.1	
43	0 47	36.9	0 48	38.0	0 40 10.1	10.0	+ 0.1	
44	8 35	38.8	8 36	39.9	0 47 56.2	56.1	+ 0.1	
45	+ 4 56	-37.9	+ 4 55	-39.0	+ 0 45 18.1	16.0	+ 2.1	

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 149.						ZONE 150.						MEAN RIGHT ASCENSION. 1859.0						Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 149.		Zone 150.						
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.					
46	12	0 14 1.3	5.3	1.30	-2.50		0 14 1.8	5.6	1.70	-2.96		0 13 58.80	58.74	+0.06						
47	12	14	9.0	5.00	2.49		14	9.7	5.70	2.96		14 2.51	2.74	-0.23						
48	11-12	14 17.2	21.2	17.20	2.50		14 17.8	21.8	17.80	2.96		14 14.70	14.84	-0.14						
49	12	15 2.9	6.9	2.90	2.50		15 3.6	7.5	3.55	2.97		15 0.40	0.58	-0.18						
50	10-12	16 43.3	47.2	43.25	2.52		16 43.7	47.7	43.70	2.99		16 40.73	40.71	+0.02						
51	8	17 5.9	9.9	5.90	2.52		17 6.3	10.3	6.30	2.99		17 3.38	3.31	+0.07						
52	14	18 31.7	35.4	31.55	2.54		18 32.0	36.0	32.00	3.01		18 29.01	28.99	+0.02						
53	13-14	19 19.0	23.0	19.00	2.56		19 19.5	23.6	19.55	3.01		19 16.44	16.54	-0.10						
54	12-13	19 44.7	48.7	44.70	2.55		19 45.0	49.0	45.00	3.02		19 42.15	41.98	+0.17						
55	13	20 27.6	31.6	27.60	2.56		20 28.4	32.3	28.35	3.03		20 25.04	25.32	-0.28						
56	12	21 44.4	48.4	44.40	2.59		21 45.0	48.9	44.95	3.04		21 41.81	41.91	-0.10						
57	12	22 15.4	19.3	15.35	2.60		22 15.7	19.8	15.75	3.04		22 12.75	12.71	+0.04						
58	....	23 42.5	46.4	42.45	2.60		23 43.0	....	43.00	....		23 39.85	39.94	-0.09			
59	11-12	23 48.3	52.3	48.30	2.60		23 49.0	52.9	48.95	3.06		23 45.70	45.89	-0.19						
60	10-11	23 56.4	60.5	56.45	2.61		23 56.8	60.8	56.80	3.06		23 53.84	53.74	+0.10						
61	11-12	24 31.9	35.8	31.85	2.61		24 32.4	36.4	32.40	3.07		24 29.24	29.33	-0.09						
62	9-10	24 45.2	49.1	45.15	2.62		24 45.6	49.7	45.65	3.07		24 42.53	42.58	-0.05						
63	13-14	26 34.2	38.6	34.40	2.65		26 35.2	39.0	35.10	3.09		26 31.75	32.01	-0.26						
64	12	26 46.0	50.0	46.00	2.65		26 46.7	50.7	46.70	3.09		26 43.35	43.61	-0.26						
65	13	27 38.6	42.6	38.60	2.65		27 39.3	43.2	39.25	3.10		27 35.95	36.15	-0.20						
66	12-13	27 55.5	59.4	55.45	2.65		27 56.0	60.1	56.05	3.10		27 52.80	52.95	-0.15						
67	11-12	29 48.0	52.0	48.00	2.67		29 48.7	52.5	48.60	3.12		29 45.33	45.48	-0.15						
68	....	....	....	....	....		29 53.6	57.6	53.60	3.12		29	50.48	....					
69	12-13	30 19.6	23.5	19.55	2.67		30 20.0	23.9	19.95	3.12		30 16.88	16.83	+0.05						
70	13	30 55.0	59.0	55.00	2.70		30 55.3	59.6	55.45	3.13		30 52.30	52.32	-0.02						
71	11-12	31 11.7	15.7	11.70	2.70		31 12.3	16.2	12.25	3.13		31 9.00	9.12	-0.12						
72	11-12	31 12.4	16.3	12.35	2.70		31 12.9	16.8	12.85	3.13		31 9.65	9.72	-0.07						
73	12-13	31 37.4	41.2	37.30	2.70		31 37.8	41.7	37.75	3.14		31 34.60	34.61	-0.01						
74	12-13	32 16.7	20.7	16.70	2.70		32 17.2	21.1	17.15	3.14		32 14.00	14.01	-0.01						
75	13-14	33 33.8	37.7	33.75	2.72		33 34.2	38.2	34.20	3.16		33 31.03	31.04	-0.01						
76	12-13	33 55.5	59.5	55.50	2.73		33 56.1	60.0	56.05	3.16		33 52.77	52.89	-0.12						
77	12-13	34 46.1	50.0	46.05	2.74		34 46.7	50.7	46.70	3.17		34 43.31	43.53	-0.22						
78	13	36 2.0	5.6	1.80	2.76		36 2.3	6.3	2.30	3.18		35 59.04	59.12	-0.08						
79	12	36 42.5	46.3	42.40	2.76		36 42.9	46.8	42.85	3.19		36 39.64	39.66	-0.02						
80	12-13	37 36.9	41.0	36.95	2.77		37 37.3	41.3	37.30	3.20		37 34.18	34.10	+0.08						
81	13	38 22.6	26.6	22.60	2.78		38 23.0	27.0	23.00	3.20		38 19.82	19.80	+0.02						
82	12	38 44.3	48.3	44.30	2.78		38 44.8	48.6	44.70	3.21		38 41.52	41.49	+0.03						
83	12-13	39 8.4	12.5	8.45	2.79		39 8.9	12.9	8.90	3.21		39 5.66	5.69	-0.03						
84	13	39 29.9	33.9	29.90	2.79		39 30.4	34.3	30.35	3.22		39 27.11	27.13	-0.02						
85	10	39 36.2	40.3	36.25	2.79		39 36.8	40.7	36.75	3.22		39 53.46	53.53	-0.07						
86	12-13	40 33.7	37.6	33.65	2.80		40 34.3	38.1	34.20	3.23		40 30.85	30.97	-0.12						
87	12-13	41 41.0	44.9	40.95	2.81		41 41.4	45.6	41.50	3.24		41 38.14	38.26	-0.12						
88	12-13	41 49.0	53.0	49.00	2.82		41 49.7	53.6	49.65	3.24		41 46.18	46.41	-0.23						
89	12	42 26.2	30.3	26.25	2.84		42	30.6	26.60	3.25		42 23.41	23.35	+0.06						
90	13-14	0 42 57.2	60.9	57.05	-2.83		0 42 57.3	61.3	57.30	-3.25		0 42 54.22	54.05	+0.17						

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o46 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
46	+ 0 20	-36.8	+ 0 24	-37.9	+ 0 39 47.2	46.1	+ 1.1	Starless field.
47	7 38	38.7	7 41	39.6	0 46 59.3	61.4	- 2.1	
48	3 38	37.6	3 39	38.7	0 43 0.4	0.3	+ 0.1	
49	9 13	39.1	9 11	40.0	0 48 33.9	31.0	+ 2.9	
50	6 2	38.3	6 2	39.2	0 45 23.7	22.8	+ 0.9	
51	7 20	38.6	7 23	39.6	0 46 41.4	43.4	- 2.0	[ment. A wagon passing shakes the instru- Faintly nebulous. A close double? A distant comp., n. p. Starless field.
52	4 41	37.9	4 42	38.9	0 44 3.1	3.1	0.0	
53	3 20	37.6	3 20	38.6	0 42 42.4	41.4	+ 1.0	
54	10 12	39.4	10 13	40.3	0 49 32.6	32.7	- 0.1	
55	5 49	38.2	5 38	39.1	0 45 10.8	58.9	+11.9	
56	0 13	36.8	0 15	37.9	0 39 36.2	37.1	- 0.9	No star above 15th mag.
57	1 58	37.2	1 57	38.3	0 41 20.8	18.7	+ 2.1	
58	....	....	....	....	0 .....	....	...
59	7 43	38.7	7 44	38.7	0 47 4.3	5.3	- 1.0	
60	5 51	38.2	5 53	39.2	0 45 12.8	13.8	- 1.0	
61	7 57	38.8	7 57	39.7	0 47 18.2	17.3	+ 0.9	Comp., n. p., 11", 13th mag.
62	4 30	37.9	4 33	38.9	0 43 52.1	54.1	- 2.0	
63	0 59	37.0	0 59	38.0	0 40 22.0	21.0	+ 1.0	
64	0 56	36.9	0 57	38.0	0 40 19.1	19.0	+ 0.1	
65	3 4	37.5	3 4	38.5	0 42 26.5	25.5	+ 1.0	
66	8 47	39.0	8 47	39.9	0 48 8.0	7.1	+ 0.9	Starless field.
67	8 41	39.0	8 42	39.9	0 48 2.0	2.1	- 0.1	
68	....	....	3 10	38.5	0 42	31.5	...
69	9 37	39.2	9 27	40.1	0 48 57.8	46.9	+10.9	
70	2 17	37.3	2 17	38.3	0 41 39.7	38.7	+ 1.0	
71	4 7	37.8	4 8	38.8	0 43 29.2	29.2	0.0	No stars above 13th mag.
72	4 18	37.8	4 18	38.8	0 43 40.2	39.2	+ 1.0	
73	5 50	38.2	5 50	39.2	0 45 11.8	10.8	+ 1.0	
74	7 57	38.8	7 56	39.7	0 47 18.2	16.3	+ 1.9	
75	7 6	38.5	7 3	39.5	0 46 27.5	23.5	+ 4.0	
76	3 0	37.5	3 0	38.5	0 42 22.5	21.5	+ 1.0	Distant comp., n. p., 25", 14th mag.
77	2 57	37.5	2 58	38.5	0 42 19.5	19.5	0.0	
78	2 39	37.4	2 40	38.4	0 42 1.6	1.6	0.0	
79	4 1	37.7	4 0	38.8	0 43 73.3	21.2	+ 2.1	
80	7 53	38.8	7 53	39.7	0 47 14.2	13.3	+ 0.9	
81	4 20	37.8	4 20	38.8	0 43 42.2	41.2	+ 1.0	Most northern star of triangle.
82	5 7	38.0	5 8	39.0	0 44 29.0	29.0	0.0	
83	5 57	38.2	5 59	39.2	0 45 18.8	19.8	- 1.0	
84	6 19	38.3	6 22	39.3	0 45 40.7	42.7	- 2.0	
85	7 1	38.5	7 4	39.5	0 46 22.5	24.5	- 2.0	
86	8 32	39.0	8 32	39.8	0 47 53.0	52.2	+ 0.8	Elongated.
87	2 52	37.5	2 53	38.5	0 42 14.5	14.5	0.0	
88	2 37	37.4	2 39	38.4	0 41 59.6	60.6	- 1.0	
89	0 7	36.7	0 7	37.8	0 39 30.3	29.2	+ 1.1	
90	+ 6 52	-38.5	+ 6 52	-39.5	+ 0 46 13.5	12.5	+ 1.0	

ZONE OBSERVATIONS.

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 150.					MEAN RIGHT ASCENSION 1859.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 149.		Zone 150.	
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	
91	13-14	0 43 45.0	48.9	44.95	-2.85		0 43 45.3	49.3	45.30	-3.26		0 43 42.10	42.04	+0.06	
92	13	45 36.1	40.2	36.15	2.86		45 36.7	40.7	36.70	3.28		45 33.29	33.42	-0.13	
93	13	45 48.2	52.1	48.15	2.86		45 48.7	52.5	48.60	3.28		45 45.29	45.32	-0.03	
94	12-13	46 12.5	....	12.50	2.87		46 13.0	17.0	13.00	3.28		46 9.63	9.72	-0.09	
95	12	46 59.6	63.8	59.70	2.88		47 0.0	4.2	0.10	3.29		46 56.82	56.81	+0.01	
96	....	.....	.....	.....	....		47 5.8	10.0	5.90	3.29		47	2.61	....
97	14-15	48 34.8	38.7	34.75	2.90		48 35.0	39.2	35.10	3.31		48 31.85	31.79	+0.06	
98	13	49 4.5	8.6	4.55	2.91		49 5.4	9.2	5.30	3.31		49 1.64	1.99	-0.35	
99	12-13	49 21.3	25.4	21.35	2.91		49 21.8	25.8	21.80	3.31		49 18.44	18.39	+0.05	
100	12-13	50 26.4	30.3	26.35	2.92		50 27.0	31.0	27.00	3.32		50 23.43	23.68	-0.25	
101	13	51 22.9	26.7	22.80	2.93		51 23.1	27.0	23.05	3.33		51 19.87	19.72	+0.15	
102	12	51 39.1	43.2	39.15	2.93		51	43.6	39.60	3.34		51 36.22	36.26	-0.04	
103	10-11	51 40.6	44.5	40.55	2.93		51 40.7	....	40.70	3.34		51 37.62	37.36	+0.26	
104	11-13	54 9.6	13.7	9.65	2.96		54 10.1	14.0	10.05	3.36		54 6.69	6.69	0.00	
105	10	54 20.4	24.3	20.35	2.97		54 20.8	25.0	20.90	3.36		54 17.38	17.54	-0.16	
106	14-15	55 59.7	63.7	59.70	2.98		56 0.3	4.1	0.20	3.38		55 56.72	56.82	-0.10	
107	10-12	56 35.6	39.5	35.55	2.98		56 35.7	39.8	35.75	3.39		56 32.57	32.36	+0.21	
108	12	56 50.3	54.0	50.15	2.99		56 50.4	54.4	50.40	3.39		56 47.16	47.01	+0.15	
109	11-12	56 53.2	57.2	53.20	2.99		56 53.6	57.6	53.60	3.39		56 50.21	50.21	0.00	
110	12-13	57 16.7	20.8	16.75	2.99		57 17.1	20.9	17.00	3.39		57 13.76	13.61	+0.15	
111	9-10	57 37.1	41.2	37.15	2.99		57 37.6	41.5	37.55	3.40		57 34.16	34.15	+0.01	
112	12-13	58 16.8	20.7	16.75	3.02		58 17.3	21.2	17.25	3.40		58 13.73	13.85	-0.12	
113	12-13	58 51.5	55.4	51.45	3.02		58 52.1	55.8	51.95	3.41		58 48.43	48.54	-0.11	
114	12-13	58 53.9	58.1	54.00	3.02		58 54.5	58.5	54.50	3.41		58 50.98	51.09	-0.11	
115	10-11	59 5.9	9.8	5.85	3.02		59 6.4	10.3	6.35	3.41		59 2.83	2.94	-0.11	
116	....	59 11.0	14.8	10.90	3.02		59 11.2	15.2	11.20	3.41		59 7.88	7.79	+0.09	
117	....	59 17.8	21.6	17.70	3.01		59 18.4	....	18.40	3.41		59 14.69	14.99	-0.30	
118	13	0 59 44.1	48.0	44.05	3.02		0 59 44.7	48.6	44.65	3.42		0 59 41.03	41.23	-0.20	
119	11	1 0 32.6	36.6	32.60	3.05		1 0 33.0	37.0	33.00	3.43		1 0 29.55	29.57	-0.02	
120	12-13	1 6.4	10.2	6.30	3.04		1 6.8	10.7	6.75	3.43		1 3.26	3.32	-0.06	
121	11-12	1 20.9	24.8	20.85	3.05		1 21.0	25.3	21.15	3.43		1 17.80	17.72	+0.08	
122	13	1	28.6	24.60	3.05		.....	.....	.....	....		1 21.55	.....	....
123	....	.....	.....	.....	....		1 37.8	41.6	37.70	3.43		1	34.27	....
124	12-13	2 1.9	6.0	1.95	3.05		2 2.3	6.2	2.25	3.44		1 58.90	58.81	+0.09	
125	12-13	2 4.8	8.8	4.80	3.05		2 5.0	9.1	5.05	3.44		2 1.75	1.61	+0.14	
126	12-13	2 28.3	32.1	28.20	3.07		2 28.4	32.7	28.55	3.44		2 25.13	25.11	+0.02	
127	12-13	3 20.9	24.9	20.90	3.07		3 21.4	25.3	21.35	3.45		3 17.83	17.90	-0.07	
128	12-13	3 22.0	26.0	22.00	3.06		3 22.4	26.3	22.35	3.45		3 18.94	18.90	+0.04	
129	12-13	4 9.7	13.7	9.70	3.08		4 10.3	14.2	10.25	3.46		4 6.62	6.79	-0.17	
130	....	.....	.....	.....	....		4 58.6	62.6	58.60	3.46		4 .....	.....	....
131	12-13	5 35.7	39.8	35.75	3.10		5 36.1	40.2	36.15	3.47		5 32.65	32.68	-0.03	
132	12-13	5 53.1	57.0	53.05	3.10		5	57.5	53.50	3.47		5 49.95	50.03	-0.08	
133	11-12	5 58.1	62.1	58.10	3.09		5 58.3	62.7	58.50	3.47		5 55.11	55.03	+0.08	
134	12	6	14.4	10.40	3.11		1 6 11.0	14.8	10.90	-3.48		6 7.29	7.42	-0.13	
135	13	1 6 46.6	....	46.60	-3.12		.....	.....	.....	....		1 6 43.48	.....	....

A.R. $23^{\text{h}} 44^{\text{m}}$ to $1^{\text{h}} 44^{\text{m}}$ Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
91	+ 2 37	-37.5	+ 2 37	-38.4	+ 0 41 59.5	58.6	+ 0.9	
92	7 42	38.8	7 41	39.6	0 47 3.2	1.4	+ 1.8	
93	8 50	39.1	8 50	40.1	0 48 10.9	9.9	+ 1.0	
94	9 0	39.1	9 1	40.1	0 48 20.9	20.9	- 0.0	
95	2 27	37.4	2 29	38.4	0 41 49.6	50.6	- 1.0	
96	....	....	6 32	39.5	0 45	52.5	...	
97	8 28	39.0	8 29	40.0	0 47 49.0	49.0	+ 0.0	
98	0 52	37.0	0 52	38.0	0 40 15.0	14.0	+ 1.0	
99	6 12	38.4	6 13	39.4	0 45 33.6	33.6	0.0	
100	6 6	38.4	6 6	39.4	0 45 27.6	26.6	+ 1.0	
101	6 38	38.5	6 38	39.5	0 45 59.5	58.5	+ 1.0	
102	9 8	39.2	9 7	40.2	0 48 28.8	26.8	+ 2.0	
103	10 38	39.6	10 37	40.6	0 49 58.4	56.4	+ 2.0	
104	4 43	38.0	4 43	39.0	0 44 5.0	4.0	+ 1.0	
105	2 48	37.5	2 50	38.5	0 42 10.5	11.5	- 1.0	Starless field.
106	6 55	38.5	6 58	39.6	0 46 16.5	18.4	- 1.9	
107	10 12	39.5	10 11	40.4	0 49 32.5	30.6	+ 1.9	
108	6 57	38.6	6 47	39.6	0 46 18.4	7.4	...	Declination of zone 150 correct.
109	5 40	38.3	5 44	39.2	0 45 1.7	4.8	- 3.1	
110	9 13	39.2	9 17	40.0	0 48 33.8	37.0	- 3.2	
111	10 32	39.5	10 33	40.3	0 49 52.5	52.7	- 0.2	
112	0 8	36.8	0 10	37.8	0 39 31.2	32.2	- 1.0	
113	4 40	38.0	4 42	38.9	0 44 2.0	3.1	- 1.1	
114	4 9	37.9	4 9	38.8	0 43 31.1	30.2	+ 0.9	
115	2 13	37.4	2 15	38.3	0 41 35.6	36.7	- 1.1	
116	....	....	3 38	38.7	0 42	59.3	...	
117	....	....	8 55	39.9	0 48	15.1	...	
118	8 46	39.1	8 47	39.9	0 48 6.9	7.1	- 0.2	
119	0 14	36.9	0 16	37.9	0 39 37.1	38.1	- 1.0	
120	6 54	38.6	6 54	39.5	0 46 15.4	14.5	+ 0.9	
121	3 27	37.7	3 26	38.6	0 42 49.3	47.4	+ 1.9	
122	4 0	37.8	....	....	0 43 22.2	....	...
123	....	....	6 43	39.4	0 46	3.6	...	
124	8 11	38.9	8 11	39.8	0 47 32.1	31.2	+ 0.9	
125	+ 6 51	38.6	+ 6 53	39.5	0 46 12.4	13.5	- 1.1	
126	- 0 10	36.8	- 0 7	37.8	0 39 13.2	15.2	- 2.0	
127	+ 2 39	37.5	+ 2 39	38.4	0 42 1.5	0.6	+ 0.9	
128	10 10	39.4	10 10	40.2	0 49 30.6	29.8	+ 0.8	
129	5 19	38.2	5 20	39.1	0 44 40.8	40.9	- 0.1	
130	....	....	8 34	39.9	0 47	54.1	...	
131	5 51	38.3	5 52	39.2	0 45 12.7	12.8	- 0.1	
132	6 49	38.6	+ 6 50	39.5	0 46 10.4	10.5	- 0.1	
133	+10 30	39.5	....	....	0 49 50.5	....	...
134	- 0 13	36.8	- 0 14	-37.8	0 39 10.2	8.2	+ 2.0	
135	+ 0 38	-37.0	....	....	+ 0 40 1.0	....	...	Seen, but not observed.

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 150.					MEAN RIGHT ASCENSION. 1859.0					Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 149.		Zone 150.		
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.		s.	s.
136	9-10	1	6	58.9	63.1	59.00	-3.11	1	6	59.3	63.1	59.20	-3.48	1	6	55.89	55.72	+0.17
137	12-13		7	4.7	8.7	4.70	3.12		7	5.3	9.3	5.30	3.48		7	1.58	1.82	-0.24
138	11-13		7	6.3	10.3	6.30	3.11		7	6.8	10.8	6.80	3.49		7	3.19	3.31	-0.12
139	11-12		8	22.1	26.1	22.10	3.13		8	22.5	26.5	22.50	3.50		8	18.97	19.00	-0.03
140	12-14		9	0.2	4.0	0.10	3.14		9	0.7	4.4	0.55	3.50		8	56.96	57.05	-0.09
141	13		10	37.0	41.1	37.05	3.15		10	37.5	41.5	37.50	3.51		10	33.90	33.99	-0.09
142	13-14		11	25.6	29.7	25.65	3.16		11	26.1	30.1	26.10	3.52		11	22.49	22.58	-0.09
143	12-13		12	10.8	14.8	10.80	3.18		12	11.4	15.3	11.35	3.53		12	7.62	7.82	-0.20
144	.....		.....	.....	.....	.....	.....		15	20.5	24.4	20.45	3.56		15	.....	16.89	.....
145	11-12		15	58.9	63.1	59.00	3.21		15	59.5	63.4	59.45	3.57		15	55.79	55.88	-0.09
146	.....		.....	.....	.....	.....	.....		16	30.7	34.8	30.75	3.58		16	.....	27.17	.....
147	.....		.....	.....	.....	.....	.....		17	7.8	11.5	7.65	3.58		17	.....	4.07	.....
148	13-14		17	9.7	13.9	9.80	3.23		17	10.3	14.2	10.25	3.58		17	6.57	6.67	-0.10
149	12-14		17	44.8	48.6	44.70	3.23		17	45.2	49.3	45.25	3.59		17	41.47	41.66	-0.19
150	8-10		18	8.0	12.1	8.05	3.24		18	8.5	12.6	8.55	3.59		18	4.81	4.96	-0.15
151	12-13		18	16.5	20.6	16.55	3.24		18	17.2	21.0	17.10	3.59		18	13.31	13.51	-0.20
152	12-13		18	23.7	27.6	23.65	3.24		18	24.3	28.1	24.20	3.59		18	20.41	20.61	-0.20
153	13		18	.....	56.0	52.00	3.24		.....	.....	.....	.....	.....		18	48.76	.....	.....
154	13-14		19	35.9	40.1	36.00	3.25		19	36.3	40.3	36.30	3.61		19	32.75	32.69	+0.06
155	12-14		21	18.5	22.5	18.50	3.27		21	19.1	22.9	19.00	3.62		21	15.23	15.38	-0.15
156	12-13		21	38.2	41.9	38.05	3.28		21	38.6	42.7	38.65	3.63		21	34.77	35.02	-0.25
157	11-12		21	39.6	43.5	39.55	3.27		21	40.0	43.8	39.90	3.63		21	36.28	36.27	+0.01
158	14		22	48.5	52.7	48.60	3.30		22	49.1	53.1	49.10	3.64		22	45.30	45.46	-0.16
159	13-14		23	58.5	62.3	58.40	3.31		23	58.7	62.7	58.70	3.65		23	55.09	55.05	+0.04
160	12-13		24	18.1	22.3	18.20	3.31		24	18.5	22.6	18.55	3.65		24	14.89	14.90	-0.01
161	8		.....	.....	.....	.....	.....		24	43.0	47.0	43.00	3.66		24	.....	39.34	.....
162	13		26	12.9	17.0	12.95	3.34		26	13.5	17.3	13.40	3.67		26	9.61	9.73	-0.12
163	13		26	13.9	17.9	13.90	3.32		26	.....	.....	.....	.....		26	10.58	.....	.....
164	.....		.....	.....	.....	.....	.....		26	49.2	53.1	49.15	3.68		26	.....	45.47	.....
165	.....		.....	.....	.....	.....	.....		28	50.6	54.8	50.70	3.70		28	.....	47.01	.....
166	10-12		29	37.2	41.2	37.20	3.38		29	37.5	41.6	37.55	3.71		29	33.82	33.84	-0.02
167	11-12		30	2.9	6.8	2.85	3.37		30	3.2	7.2	3.20	3.71		29	59.48	59.49	-0.01
168	11		30	26.3	30.3	26.30	3.39		30	26.8	30.6	26.70	3.71		30	22.91	22.99	-0.08
169	12		31	50.8	54.8	50.80	3.40		31	.....	55.0	51.00	3.73		31	47.40	47.27	+0.13
170	14		32	14.3	18.1	14.20	3.40		32	.....	18.7	14.70	3.73		32	10.80	10.97	-0.17
171	12-13		33	9.4	13.3	9.35	3.42		33	9.8	13.8	9.80	3.74		33	5.93	6.06	-0.13
172	12-13		33	10.3	14.2	10.25	3.42		33	10.7	14.9	10.80	3.74		33	6.83	7.06	-0.23
173	.....		.....	.....	.....	.....	.....		34	36.2	40.2	36.20	3.76		34	.....	32.44	.....
174	14		34	36.5	40.3	36.40	3.44		34	37.0	40.8	36.90	3.76		34	32.96	33.14	-0.18
175	.....		34	50.0	53.9	49.95	3.44		34	50.3	54.1	50.20	3.76		34	46.51	46.44	+0.07
176	12-13		36	33.0	36.8	32.90	3.46		36	33.3	37.3	33.30	3.78		36	29.44	29.52	-0.08
177	11-12		37	2.9	6.8	2.85	3.47		37	3.3	7.2	3.25	3.78		36	59.38	59.47	-0.09
178	11-12		37	13.4	17.3	13.35	3.47		37	13.8	17.8	13.80	3.78		37	9.88	10.02	-0.14
179	12-13		37	41.3	45.2	41.25	3.46		37	41.7	45.7	41.70	3.79		37	37.79	37.91	-0.12
180	12-13	1	37	59.9	.....	59.90	-3.47	1	38	0.3	4.3	0.30	-3.79	1	37	56.43	56.51	-0.08

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
136	+ 5 38	-38.3	+ 5 38	-39.2	+ 0 44 59.7	58.8	+ 0.9	
137	4 30	38.0	4 31	38.9	0 43 52.0	52.1	- 0.1	
138	5 13	38.2	5 18	39.1	0 44 34.8	38.9	- 4.1	
139	3 7	37.6	3 9	38.5	0 42 29.4	30.5	- 1.1	
140	1 33	37.2	1 34	38.2	0 40 55.8	55.8	0.0	
141	9 57	39.4	9 52	40.2	0 49 17.6	11.8	+ 5.8	
142	6 35	38.5	6 33	39.4	0 46 56.5	53.6	+ 2.9	
143	1 28	37.2	1 29	38.2	0 40 50.8	50.8	0.0	
144	....	....	1 56	38.3	0 41	17.7	...	
145	7 4	38.6	7 4	39.5	0 46 25.4	24.5	+ 0.9	Clouds in zone 149.
146	....	....	1 12	38.1	0 40	33.9	...	
147	....	....	3 9	38.6	0 42	30.4	...	
148	6 47	38.6	6 46	39.4	0 46 8.4	6.6	+ 1.8	
149	9 50	39.4	9 48	40.2	0 49 10.6	7.8	+ 2.8	
150	4 18	37.9	4 19	38.8	0 43 40.1	40.2	- 0.1	
151	7 32	38.8	7 28	39.6	0 46 53.2	48.4	+ 4.8	
152	7 29	38.8	7 29	39.6	0 46 50.2	49.4	+ 0.8	
153	9 50	39.4	....	....	0 49 10.6	....	...
154	9 3	39.2	9 2	40.0	0 48 23.8	22.0	+ 1.8	No star above 14th mag.
155	9 8	39.2	9 6	40.0	0 48 28.8	26.0	+ 2.8	
156	2 58	37.6	2 58	38.5	0 42 20.4	19.5	+ 0.9	
157	8 49	39.1	8 48	39.9	0 48 9.9	8.1	+ 1.8	
158	0 35	36.9	0 33	37.9	0 39 58.1	55.1	+ 3.0	
159	2 30	37.4	2 30	38.4	0 41 52.6	51.6	+ 1.0	
160	5 39	38.3	5 39	39.1	0 44 60.7	59.9	+ 0.8	
161	....	....	10 38	40.3	0 49	57.7	...	
162	3 54	37.9	3 53	38.7	0 43 16.1	14.3	+ 1.8	
163	10 40	39.6	....	....	0 50 0.4	....	...	Starless field.
164	....	....	7 43	39.6	0 47	3.4	...	
165	....	....	1 37	38.1	0 40	58.9	...	Clouds, zone 149.
166	4 11	37.9	4 12	38.7	0 43 33.1	33.3	- 0.2	
167	8 12	38.9	8 13	39.7	0 47 33.1	33.3	- 0.2	
168	0 40	37.0	0 41	37.9	0 40 3.0	3.1	- 0.1	
169	8 22	39.0	8 20	39.7	0 47 43.0	40.3	+ 2.7	
170	7 3	38.6	7 4	39.4	0 46 24.4	24.6	- 0.2	
171	1 59	37.3	2 0	38.2	0 41 21.7	21.8	- 0.1	
172	5 13	38.1	5 15	39.0	0 44 34.9	36.0	- 1.1	
173	....	....	2 0	38.2	0 41	21.8	...	
174	1 58	37.3	2 0	38.2	0 41 20.7	21.8	- 1.1	
175	....	....	4 12	38.7	0 43	33.3	...	Touched the instrument.
176	4 56	38.1	4 56	38.9	0 44 17.9	17.1	+ 0.8	
177	1 27	37.2	1 26	38.1	0 40 49.8	47.9	+ 1.9	
178	1 32	37.2	1 31	38.1	0 40 54.8	52.9	+ 1.9	
179	10 28	39.5	+10 23	-40.2	0 49 48.5	42.8	+ 5.7	
180	+10 19	-39.5	....	....	+ 0 49 39.5	....	...

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 150.					MEAN RIGHT ASCENSION. 1859.0					Difference.			
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 149.		Zone 150.						
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.						
136	9-10	1	6	58.9	63.1	59.00	-3.11	1	6	59.3	63.1	59.20	-3.48	1	6	55.89	55.72	+0.17		
137	12-13		7	4.7	8.7	4.70	3.12		7	5.3	9.3	5.30	3.48		7	1.58	1.82	-0.24		
138	11-13		7	6.3	10.3	6.30	3.11		7	6.8	10.8	6.80	3.49		7	3.19	3.31	-0.12		
139	11-12		8	22.1	26.1	22.10	3.13		8	22.5	26.5	22.50	3.50		8	18.97	19.00	-0.03		
140	12-14		9	0.2	4.0	0.10	3.14		9	0.7	4.4	0.55	3.50		8	56.96	57.05	-0.09		
141	13		10	37.0	41.1	37.05	3.15		10	37.5	41.5	37.50	3.51		10	33.90	33.99	-0.09		
142	13-14		11	25.6	29.7	25.65	3.16		11	26.1	30.1	26.10	3.52		11	22.49	22.58	-0.09		
143	12-13		12	10.8	14.8	10.80	3.18		12	11.4	15.3	11.35	3.53		12	7.62	7.82	-0.20		
144	.....		.....	.....	.....	.....	.....		15	20.5	24.4	20.45	3.56		15	.....	16.89	.....	
145	11-12		15	58.9	63.1	59.00	3.21		15	59.5	63.4	59.45	3.57		15	55.79	55.88	-0.09		
146	.....		.....	.....	.....	.....	.....		16	30.7	34.8	30.75	3.58		16	.....	27.17	.....	
147	.....		.....	.....	.....	.....	.....		17	7.8	11.5	7.65	3.58		17	.....	4.07	.....	
148	13-14		17	9.7	13.9	9.80	3.23		17	10.3	14.2	10.25	3.58		17	6.57	6.67	-0.10		
149	12-14		17	44.8	48.6	44.70	3.23		17	45.2	49.3	45.25	3.59		17	41.47	41.66	-0.19		
150	8-10		18	8.0	12.1	8.05	3.24		18	8.5	12.6	8.55	3.59		18	4.81	4.96	-0.15		
151	12-13		18	16.5	20.6	16.55	3.24		18	17.2	21.0	17.10	3.59		18	13.31	13.51	-0.20		
152	12-13		18	23.7	27.6	23.65	3.24		18	24.3	28.1	24.20	3.59		18	20.41	20.61	-0.20		
153	13		18	....	56.0	52.00	3.24		.....	.....	.....	.....	.....		18	48.76	.....	.....
154	13-14		19	35.9	40.1	36.00	3.25		19	36.3	40.3	36.30	3.61		19	32.75	32.69	+0.06		
155	12-14		21	18.5	22.5	18.50	3.27		21	19.1	22.9	19.00	3.62		21	15.23	15.38	-0.15		
156	12-13		21	38.2	41.9	38.05	3.28		21	38.6	42.7	38.65	3.63		21	34.77	35.02	-0.25		
157	11-12		21	39.6	43.5	39.55	3.27		21	40.0	43.8	39.90	3.63		21	36.28	36.27	+0.01		
158	14		22	48.5	52.7	48.60	3.30		22	49.1	53.1	49.10	3.64		22	45.30	45.46	-0.16		
159	13-14		23	58.5	62.3	58.40	3.31		23	58.7	62.7	58.70	3.65		23	55.09	55.05	+0.04		
160	12-13		24	18.1	22.3	18.20	3.31		24	18.5	22.6	18.55	3.65		24	14.89	14.90	-0.01		
161	8		.....	.....	.....	.....	.....		24	48.0	47.0	43.00	3.66		24	.....	39.34	.....	
162	13		26	12.9	17.0	12.95	3.34		26	13.5	17.3	13.40	3.67		26	9.61	9.73	-0.12		
163	13		26	13.9	17.9	13.90	3.32		26	.....	.....	.....	.....		26	10.58	.....	.....
164	.....		.....	.....	.....	.....	.....		26	49.2	53.1	49.15	3.68		26	.....	45.47	.....	
165	.....		.....	.....	.....	.....	.....		28	50.6	54.8	50.70	3.70		28	.....	47.01	.....	
166	10-12		29	37.2	41.2	37.20	3.38		29	37.5	41.6	37.55	3.71		29	33.82	33.84	-0.02		
167	11-12		30	2.9	6.8	2.85	3.37		30	3.2	7.2	3.20	3.71		29	59.48	59.49	-0.01		
168	11		30	26.3	30.3	26.30	3.39		30	26.8	30.6	26.70	3.71		30	22.91	22.99	-0.08		
169	12		31	50.8	54.8	50.80	3.40		31	....	55.0	51.00	3.73		31	47.40	47.27	+0.13	
170	14		32	14.3	18.1	14.20	3.40		32	....	18.7	14.70	3.73		32	10.80	10.97	-0.17	
171	12-13		33	9.4	13.3	9.35	3.42		33	9.8	13.8	9.80	3.74		33	5.93	6.06	-0.13		
172	12-13		33	10.3	14.2	10.25	3.42		33	10.7	14.9	10.80	3.74		33	6.83	7.06	-0.23		
173	.....		.....	.....	.....	.....	.....		34	36.2	40.2	36.20	3.76		34	.....	32.44	.....	
174	14		34	36.5	40.3	36.40	3.44		34	37.0	40.8	36.90	3.76		34	32.96	33.14	-0.18		
175	.....		34	50.0	53.9	49.95	3.44		34	50.3	54.1	50.20	3.76		34	46.51	46.44	+0.07	
176	12-13		36	33.0	36.8	32.90	3.46		36	33.3	37.3	33.30	3.78		36	29.44	29.52	-0.08		
177	11-12		37	2.9	6.8	2.85	3.47		37	3.3	7.2	3.25	3.78		36	59.38	59.47	-0.09		
178	11-12		37	13.4	17.3	13.35	3.47		37	13.8	17.8	13.80	3.78		37	9.88	10.02	-0.14		
179	12-13		37	41.3	45.2	41.25	3.46		37	41.7	45.7	41.70	3.79		37	37.79	37.91	-0.12		
180	12-13	1	37	59.9	59.90	-3.47		1	38	0.3	4.3	0.30	-3.79		1	37	56.43	56.51	-0.08

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
136	+ 5 38	-38.3	+ 5 38	-39.2	+ 0 44 59.7	58.8	+ 0.9	
137	4 30	38.0	4 31	38.9	0 43 52.0	52.1	- 0.1	
138	5 13	38.2	5 18	39.1	0 44 34.8	38.9	- 4.1	
139	3 7	37.6	3 9	38.5	0 42 29.4	30.5	- 1.1	
140	1 33	37.2	1 34	38.2	0 40 55.8	55.8	0.0	
141	9 57	39.4	9 52	40.2	0 49 17.6	11.8	+ 5.8	
142	6 35	38.5	6 33	39.4	0 46 56.5	53.6	+ 2.9	
143	1 28	37.2	1 29	38.2	0 40 50.8	50.8	0.0	
144	....	....	1 56	38.3	0 41	17.7	...	
145	7 4	38.6	7 4	39.5	0 46 25.4	24.5	+ 0.9	Clouds in zone 149.
146	....	....	1 12	38.1	0 40	33.9	...	
147	....	....	3 9	38.6	0 42	30.4	...	
148	6 47	38.6	6 46	39.4	0 46 8.4	6.6	+ 1.8	
149	9 50	39.4	9 48	40.2	0 49 10.6	7.8	+ 2.8	
150	4 18	37.9	4 19	38.8	0 43 40.1	40.2	- 0.1	
151	7 32	38.8	7 28	39.6	0 46 53.2	48.4	+ 4.8	
152	7 29	38.8	7 29	39.6	0 46 50.2	49.4	+ 0.8	
153	9 50	39.4	....	....	0 49 10.6	....	...
154	9 3	39.2	9 2	40.0	0 48 23.8	22.0	+ 1.8	No star above 14th mag.
155	9 8	39.2	9 6	40.0	0 48 28.8	26.0	+ 2.8	
156	2 58	37.6	2 58	38.5	0 42 20.4	19.5	+ 0.9	
157	8 49	39.1	8 48	39.9	0 48 9.9	8.1	+ 1.8	
158	0 35	36.9	0 33	37.9	0 39 58.1	55.1	+ 3.0	
159	2 30	37.4	2 30	38.4	0 41 52.6	51.6	+ 1.0	
160	5 39	38.3	5 39	39.1	0 44 60.7	59.9	+ 0.8	
161	....	....	10 38	40.3	0 49	57.7	...	
162	3 54	37.9	3 53	38.7	0 43 16.1	14.3	+ 1.8	
163	10 40	39.6	....	....	0 50 0.4	....	...	Starless field.
164	....	....	7 43	39.6	0 47	3.4	...	
165	....	....	1 37	38.1	0 40	58.9	...	Clouds, zone 149.
166	4 11	37.9	4 12	38.7	0 43 33.1	33.3	- 0.2	
167	8 12	38.9	8 13	39.7	0 47 33.1	33.3	- 0.2	
168	0 40	37.0	0 41	37.9	0 40 3.0	3.1	- 0.1	
169	8 22	39.0	8 20	39.7	0 47 43.0	40.3	+ 2.7	
170	7 3	38.6	7 4	39.4	0 46 24.4	24.6	- 0.2	
171	1 59	37.3	2 0	38.2	0 41 21.7	21.8	- 0.1	
172	5 13	38.1	5 15	39.0	0 44 34.9	36.0	- 1.1	
173	....	....	2 0	38.2	0 41	21.8	...	
174	1 58	37.3	2 0	38.2	0 41 20.7	21.8	- 1.1	
175	....	....	4 12	38.7	0 43	33.3	...	Touched the instrument.
176	4 56	38.1	4 56	38.9	0 44 17.9	17.1	+ 0.8	
177	1 27	37.2	1 26	38.1	0 40 49.8	47.9	+ 1.9	
178	1 32	37.2	1 31	38.1	0 40 54.8	52.9	+ 1.9	
179	10 28	39.5	+10 23	-40.2	0 49 48.5	42.8	+ 5.7	
180	+10 19	-39.5	....	....	+ 0 49 39.5	....	...

A.R. ^{h.}93 ^{m.}44 to ^{h.}1 ^{m.}44.

Dec. +0 40 to 0 50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 150.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	Zone 149.	Zone 150.			
181	12-13	h. m. s. 1 38 3.3	s. 7.1	s. 3.20	s. -3.49	h. m. s. 1 38 3.7	s. 7.7	s. 3.70	s. -3.79	h. m. s. 1 37 59.71	s. 59.91	s. -0.20		
182	12	38 14.6	18.5	14.55	3.49	38	19.0	15.00	3.79	38 11.06	11.21	-0.15		
183	12-13	38 48.0	51.8	47.90	3.50	38 48.3	52.2	48.25	3.80	38 44.40	44.45	-0.05		
184	13	39 2.9	7.0	2.95	3.49	39 3.2	7.3	3.25	3.80	38 59.46	59.45	+0.01		
185	11-13	39 32.0	36.0	32.00	3.49	39 32.5	36.5	32.50	3.81	39 28.51	28.69	-0.18		
186	.....	.....	.....	.....	.....	40 4.1	.....	4.10	3.81	40 0.29	.....	.....
187	11-12	40 14.5	18.7	14.60	3.51	40 15.0	18.9	14.95	3.81	40 11.09	11.14	-0.05		
188	12-13	40 30.7	34.8	30.75	3.51	40 31.2	35.0	31.10	3.82	40 27.24	27.28	-0.04		
189	10-11	40 55.6	59.6	55.60	3.50	40 56.1	60.1	56.10	3.82	40 52.10	52.28	-0.18		
190	12-13	41 3.0	6.7	2.85	3.51	41	7.1	3.10	3.82	40 59.34	59.28	+0.06		
191	12-13	41 40.5	44.3	40.40	3.51	41 40.8	44.9	40.85	3.83	41 36.89	37.02	-0.13		
192	13	43 23.0	27.1	23.05	3.53	43 23.1	27.3	23.20	3.84	43 19.52	19.36	+0.16		
193	13	43 33.2	37.0	33.10	3.53	43 33.3	37.5	33.40	3.85	43 29.57	29.55	+0.02		
194	11-12	44 14.5	18.6	14.55	3.55	44 15.0	18.8	14.90	3.85	44 11.00	11.05	-0.05		
195	11-12	1 44 30.1	34.3	30.20	-3.54	1 44 30.6	34.6	30.60	-3.86	1 44 26.66	26.74	-0.08		

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
181	+ 9 59	-39.4	+10 0	-40.1	+ 0 49 19.6	19.9	- 0.3	The focus of the stars does not agree with the focus of the scale, owing probably to cold. Observations difficult to make, and not very reliable, owing to the stars having a sensible disc. Declination of zone 150 correct.
182	+ 3 13	37.6	+ 3 14	38.5	0 42 35.4	35.5	- 0.1	
183	- 0 29	36.7	- 0 30	37.6	0 39 52.3	52.4	- 0.1	
184	+ 4 28	38.0	+ 4 30	38.8	0 43 50.0	51.2	- 1.2	
185	+ 9 19	39.2	9 16	39.9	0 48 39.8	36.1	+ 3.7	
186	.....	.....	+ 2 20	38.3	0 41 41.7	.....	...
187	- 0 30	36.7	- 0 30	37.6	0 48 53.3	52.4	+ 0.9	
188	+ 2 9	37.4	+ 2 9	38.2	0 41 31.6	30.8	+ 0.8	
189	8 51	39.1	8 52	39.8	0 48 11.9	12.2	- 0.3	
190	4 10	37.9	4 13	38.7	0 43 32.1	34.3	- 2.2	
191	10 13	39.5	10 13	40.2	0 49 33.5	32.8	+ 0.7	
192	7 50	38.8	7 50	39.6	0 47 11.2	10.4	+ 0.8	
193	8 14	38.9	8 12	39.7	0 47 35.1	32.3	+ 2.8	
194	3 38	37.7	3 38	38.5	0 42 60.3	59.5	+ 0.8	
195	+ 7 50	-38.9	+ 7 42	-39.5	+ 0 47 11.1	2.5	+ 8.6	

ZONE OBSERVATIONS.

A.R. ^{h.}93 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 150.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	First Wire.	Second Wire.	Mean red. to 1st Wire.	h.	Zone 149.	Zone 150.			
181	12-13	^{h.} 1 ^{m.} 38 ^{s.} 3.3	^{s.} 7.1	^{s.} 3.20	-3.49	^{h.} 1 ^{m.} 38 ^{s.} 3.7	^{s.} 7.7	^{s.} 3.70	-3.79	^{h.} 1 ^{m.} 37 ^{s.} 59.71	^{s.} 59.91	-0.20		
182	12	38 14.6	18.5	14.55	3.49	38	19.0	15.00	3.79	38 11.06	11.21	-0.15		
183	12-13	38 48.0	51.8	47.90	3.50	38 48.3	52.2	48.25	3.80	38 44.40	44.45	-0.05		
184	13	39 2.9	7.0	2.95	3.49	39 3.2	7.3	3.25	3.80	38 59.46	59.45	+0.01		
185	11-13	39 32.0	36.0	32.00	3.49	39 32.5	36.5	32.50	3.81	39 28.51	28.69	-0.18		
186	.....	.....	.....	.....	.....	40 4.1	.....	4.10	3.81	40	0.29	.....	
187	11-12	40 14.5	18.7	14.60	3.51	40 15.0	18.9	14.95	3.81	40 11.09	11.14	-0.05		
188	12-13	40 30.7	34.8	30.75	3.51	40 31.2	35.0	31.10	3.82	40 27.24	27.28	-0.04		
189	10-11	40 55.6	59.6	55.60	3.50	40 56.1	60.1	56.10	3.82	40 52.10	52.28	-0.18		
190	12-13	41 3.0	6.7	2.85	3.51	41	7.1	3.10	3.82	40 59.34	59.28	+0.06		
191	12-13	41 40.5	44.3	40.40	3.51	41 40.8	44.9	40.85	3.83	41 36.89	37.02	-0.13		
192	13	43 23.0	27.1	23.05	3.53	43 23.1	27.3	23.20	3.84	43 19.52	19.36	+0.16		
193	13	43 33.2	37.0	33.10	3.53	43 33.3	37.5	33.40	3.85	43 29.57	29.55	+0.02		
194	11-12	44 14.5	18.6	14.55	3.55	44 15.0	18.8	14.90	3.85	44 11.00	11.05	-0.05		
195	11-12	1 44 30.1	34.3	30.20	-3.54	1 44 30.6	34.6	30.60	-3.86	1 44 26.66	26.74	-0.08		

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
181	+ 9 59	-39.4	+10 0	-40.1	+ 0 49 19.6	19.9	- 0.3	The focus of the stars does not agree with the focus of the scale, owing probably to cold. Observations difficult to make, and not very reliable, owing to the stars having a sensible disc. Declination of zone 150 correct.
182	+ 3 13	37.6	+ 3 14	38.5	0 42 35.4	35.5	- 0.1	
183	- 0 29	36.7	- 0 30	37.6	0 39 52.3	52.4	- 0.1	
184	+ 4 28	38.0	+ 4 30	38.8	0 43 50.0	51.2	- 1.2	
185	+ 9 19	39.2	9 16	39.9	0 48 39.8	36.1	+ 3.7	
186	.....	.....	+ 2 20	38.3	0 41	41.7	...
187	- 0 30	36.7	- 0 30	37.6	0 48 53.3	52.4	+ 0.9	
188	+ 2 9	37.4	+ 2 9	38.2	0 41 31.6	30.8	+ 0.8	
189	8 51	39.1	8 52	39.8	0 48 11.9	12.2	- 0.3	
190	4 10	37.9	4 13	38.7	0 43 32.1	34.3	- 2.2	
191	10 13	39.5	10 13	40.2	0 49 33.5	32.8	+ 0.7	
192	7 50	38.8	7 50	39.6	0 47 11.2	10.4	+ 0.8	
193	8 14	38.9	8 12	39.7	0 47 35.1	32.3	+ 2.8	
194	3 38	37.7	3 38	38.5	0 42 60.3	59.5	+ 0.8	
195	+ 7 50	-38.9	+ 7 42	-39.5	+ 0 47 11.1	2.5	+ 8.6	

A.R. ^{h.} 1 ^{m.} 40 to ^{h.} 3 ^{m.} 30.Dec. ⁺ 6 [°] 40 to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 151.				ZONE 152.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 151.	Zone 152.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
1	10-11	1 40 56.2	60.3	56.25	-0.93	.....	.....	.....	.....	1 40 55.32	.....	.....
2	11-12	41 41.0	45.1	41.05	0.94	1 41 41.2	45.0	41.10	-0.81	41 40.11	40.29	-0.18
3	12	43 23.6	.....	23.60	0.95	43 23.5	27.6	23.55	0.83	43 22.65	22.72	-0.07
4	12	43 33.8	37.7	33.85	0.95	43 33.7	37.7	33.70	0.83	43 32.90	32.87	+0.03
5	11-12	44 15.2	19.2	15.20	0.95	44 15.1	19.1	15.10	0.84	44 14.25	14.26	-0.01
6	10-11	44 30.8	34.8	30.80	0.95	44 30.8	34.8	30.80	0.84	44 29.89	29.96	-0.07
7	11	45 59.8	63.7	59.75	0.96	45 59.7	63.6	59.65	0.86	45 58.79	58.79	0.00
8	12	47 14.6	18.7	14.65	0.97	47 14.8	18.6	14.70	0.87	47 13.68	13.83	-0.15
9	13-14	47 27.8	31.9	27.85	0.97	47 27.7	31.5	27.60	0.87	47 26.88	26.73	+0.15
10	10-11	48 8.0	12.0	8.00	0.97	48 8.4	12.2	8.30	0.88	48 7.03	7.42	-0.39
11	13-14	48 14.6	18.6	14.60	0.97	.....	.....	.....	.....	48 13.63	.....	.....
12	10-11	48 36.6	40.4	36.50	0.97	48 36.8	40.6	36.70	0.88	48 35.53	35.82	-0.29
13	12	48 50.8	54.7	50.75	0.97	.....	.....	.....	.....	48 49.78	.....	.....
14	12-13	50 8.2	12.3	8.25	0.98	50 8.2	11.9	8.15	0.90	50 7.27	7.25	+0.02
15	10-11	50 54.7	58.6	54.65	0.99	50 54.8	58.6	54.70	0.90	50 53.66	53.80	-0.14
16	.....	.....	.....	.....	.....	51 6.0	9.9	5.95	0.90	51 5.05	.....	.....
17	11-13	51 43.8	47.8	43.80	0.99	51 43.9	47.6	43.75	0.91	51 42.81	42.84	-0.03
18	11-12	52 7.5	11.6	7.55	0.99	52 7.7	11.7	7.70	0.91	52 6.56	6.79	-0.23
19	12-13	52 37.6	41.3	37.45	1.00	52 37.3	41.1	37.20	0.92	52 36.45	36.28	+0.17
20	12-13	52 42.5	46.9	42.70	1.00	52 42.4	46.4	42.40	0.92	52 41.70	41.48	+0.22
21	11-14	53 11.2	15.2	11.20	1.00	.....	.....	.....	.....	53 10.20	.....	.....
22	.....	.....	.....	.....	.....	53 30.0	34.1	30.05	0.92	53 29.13	.....	.....
23	11-12	53 59.3	63.3	59.30	1.00	53 59.2	63.3	59.25	0.93	53 58.30	58.32	-0.02
24	13	54 12.8	16.9	12.85	1.01	54 12.8	16.6	12.60	0.93	54 11.84	11.67	+0.17
25	12	54 21.4	.....	21.40	1.01	54 21.5	.....	21.50	0.93	54 20.39	20.57	-0.18
26	9-10	54 28.0	32.0	28.00	1.01	54 27.9	31.9	27.90	0.94	54 26.99	26.96	+0.03
27	12	55 3.6	7.5	3.55	1.01	55 3.4	7.3	3.35	0.94	55 2.54	2.41	+0.13
28	13	55 19.7	.....	19.70	1.01	55 19.7	23.4	19.40	0.94	55 18.69	18.46	+0.23
29	12	55 29.2	33.2	29.20	1.01	55 29.2	33.2	29.20	0.94	55 28.19	28.26	-0.07
30	9-11	55 56.2	60.1	56.15	1.02	55 56.2	60.2	56.20	0.95	55 55.13	55.25	-0.12
31	10-11	56 35.1	39.0	35.05	1.02	56 35.1	39.2	35.15	0.94	56 34.03	34.21	-0.18
32	12-13	57 13.3	.....	13.30	1.02	57 13.6	17.4	13.50	0.95	57 12.28	12.55	-0.27
33	11-12	57 22.0	26.0	22.00	1.02	57 21.9	25.9	21.90	0.96	57 20.98	20.94	+0.04
34	11-12	57 28.6	32.4	28.50	1.02	57 28.7	32.5	28.60	0.96	57 27.48	27.64	-0.16
35	13-14	58 0.6	4.7	0.65	1.03	58 0.7	4.8	0.75	0.96	57 59.62	59.79	-0.17
36	13-14	58 50.4	46.40	1.03	.....	58 46.7	50.8	46.75	0.96	58 45.37	45.79	-0.42
37	12-13	58 56.8	60.5	56.65	1.03	58 56.8	60.7	56.75	0.97	58 55.62	55.78	-0.16
38	7-8	59 37.0	41.1	37.05	1.04	59 37.0	41.1	37.05	0.97	59 36.01	36.08	-0.07
39	12-13	1 59 53.8	57.8	53.80	1.04	1 59 53.8	57.7	53.75	0.98	1 59 52.76	52.77	-0.01
40	12	2 0 2.2	6.4	2.30	1.04	.....	.....	.....	.....	2 0 1.26	.....	.....
41	12	0 9.6	13.4	9.50	1.04	2 0 9.2	13.2	9.20	0.98	0 8.46	8.22	+0.24
42	12-13	1 25.5	29.4	25.45	1.05	1 25.5	29.4	25.45	0.99	1 24.40	24.46	-0.06
43	12-13	1 52.4	56.5	52.45	1.05	1 52.7	56.3	52.50	0.99	1 51.40	51.51	-0.11
44	12-13	2 10.4	14.3	10.35	1.05	.....	.....	.....	.....	2 9.80	.....	.....
45	12	2 2 39.8	43.7	39.75	-1.05	2 2 39.9	43.8	39.85	-1.00	2 2 38.70	38.85	-0.15

A.R. ^{h.}1 ^{m.}40 to ^{h.}3 ^{m.}30.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 151.	d.	Zone 152.	d.	Zone 151.	Zone 152.		
1	+ 8 50	-18.0	+ 8 50	-16.7	+ 0 48 32.0	33.3	- 1.3	
2	10 13	18.4	10 11	17.2	0 49 54.6	53.8	+ 0.8	
3	7 49	17.9	7 48	16.8	0 47 31.1	31.2	- 0.1	
4	8 13	18.0	8 12	16.8	0 47 55.0	55.2	- 0.2	
5	3 35	16.9	3 33	16.0	0 43 18.1	17.0	+ 1.1	
6	7 41	18.0	7 40	15.8	0 47 23.0	24.2	- 1.2	
7	9 4	18.4	9 4	17.2	0 48 45.6	46.8	- 1.2	
8	8 37	18.5	8 35	17.2	0 48 18.5	17.8	+ 0.7	
9	1 41	16.6	1 41	15.8	0 41 24.4	25.2	- 0.8	
10	6 40	18.0	6 40	16.5	0 46 22.0	23.5	- 1.5	
11	6 33	18.0	....	...	0 46 15.0	....	...
12	+10 10	18.9	+10 12	17.7	0 49 51.1	54.3	- 3.2	
13	- 0 10	16.3	....	...	0 39 33.7	....	...
14	- 0 20	16.3	- 0 22	15.7	0 39 23.7	22.3	+ 1.4	
15	+ 3 35	17.4	+ 3 34	16.5	0 43 17.6	17.5	+ 0.1	
16	....	...	9 26	17.7	0 49	8.3	...	
17	10 27	19.2	10 30	17.9	0 50 7.8	12.1	- 4.3	
18	+10 16	19.2	+10 15	17.9	0 49 56.8	57.1	- 0.3	
19	- 0 14	16.5	- 0 17	16.0	0 39 29.5	27.0	+ 2.5	
20	- 0 3	16.6	- 0 3	16.0	0 39 40.4	41.0	- 0.6	
21	+ 8 0	18.7	....	....	0 47 41.3	....	...
22	....	...	+10 33	18.1	0 50	14.9	...	
23	0 22	16.7	0 21	16.0	0 40 5.3	5.0	+ 0.3	
24	1 20	17.0	1 19	16.3	0 41 3.0	2.7	+ 0.3	
25	6 34	18.4	3 36	16.7	0 46 15.6	....	...
26	+ 0 14	16.8	+ 0 15	16.0	0 39 57.2	59.0	- 1.8	
27	- 0 27	16.7	- 0 23	16.0	0 39 16.3	21.0	- 4.7	
28	+ 3 44	17.1	+ 3 40	16.8	0 43 26.9	23.2	+ 3.7	
29	2 5	17.3	2 8	16.5	0 41 47.7	51.5	- 3.8	
30	1 37	17.2	1 38	16.4	0 41 19.8	21.6	- 1.8	Adjusted focus, zone 151.
31	8 23	19.0	8 23	17.8	0 48 4.0	5.2	- 1.2	
32	8 52	19.2	8 51	18.0	0 48 32.8	33.0	- 0.2	
33	3 59	18.0	4 0	17.0	0 43 41.0	43.0	- 2.0	
34	2 1	17.4	2 0	16.6	0 41 43.6	43.4	+ 0.2	
35	4 28	18.1	4 29	17.2	0 44 9.9	11.8	- 1.9	
36	8 0	19.1	8 3	17.9	0 47 40.9	45.1	- 4.2	
37	4 58	18.3	4 56	17.3	0 44 39.7	38.7	+ 1.0	
38	6 40	18.8	6 39	17.7	0 46 21.2	21.3	- 0.1	
39	0 42	17.3	0 40	16.5	0 40 24.7	23.5	+ 1.2	
40	6 12	18.7	....	...	0 45 53.3	....	...
41	5 59	18.7	5 58	17.6	0 45 40.3	40.4	- 0.1	
42	3 29	18.0	3 29	17.2	0 43 11.0	11.8	- 0.8	
43	2 43	18.0	2 48	17.1	0 42 25.0	30.9	- 5.9	1st declination doubtful.
44	9 45	19.8	....	...	0 49 25.2	....	...	" " "
45	+ 7 41	-19.3	+ 7 33	-18.1	+ 0 47 21.7	14.9	+ 6.8	

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 150.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 149.	Zone 150.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}
136	9-10	1 6 58.9	63.1	59.00	3.11		1 6 59.3	63.1	59.20	3.48		1 6 55.89	55.72	+0.17
137	12-13	7 4.7	8.7	4.70	3.12		7 5.3	9.3	5.30	3.48		7 1.58	1.82	-0.24
138	11-13	7 6.3	10.3	6.30	3.11		7 6.8	10.8	6.80	3.49		7 3.19	3.31	-0.12
139	11-12	8 22.1	26.1	22.10	3.13		8 22.5	26.5	22.50	3.50		8 18.97	19.00	-0.03
140	12-14	9 0.2	4.0	0.10	3.14		9 0.7	4.4	0.55	3.50		8 56.96	57.05	-0.09
141	13	10 37.0	41.1	37.05	3.15		10 37.5	41.5	37.50	3.51		10 33.90	33.99	-0.09
142	13-14	11 25.6	29.7	25.65	3.16		11 26.1	30.1	26.10	3.52		11 22.49	22.58	-0.09
143	12-13	12 10.8	14.8	10.80	3.18		12 11.4	15.3	11.35	3.53		12 7.62	7.82	-0.20
144	.....	.....	.....	.....	.....		15 20.5	24.4	20.45	3.56		15	16.89	.....
145	11-12	15 58.9	63.1	59.00	3.21		15 59.5	63.4	59.45	3.57		15 55.79	55.88	-0.09
146	.....	.....	.....	.....	.....		16 30.7	34.8	30.75	3.58		16	27.17	.....
147	.....	.....	.....	.....	.....		17 7.8	11.5	7.65	3.58		17	4.07	.....
148	13-14	17 9.7	13.9	9.80	3.23		17 10.3	14.2	10.25	3.58		17 6.57	6.67	-0.10
149	12-14	17 44.8	48.6	44.70	3.23		17 45.2	49.3	45.25	3.59		17 41.47	41.66	-0.19
150	8-10	18 8.0	12.1	8.05	3.24		18 8.5	12.6	8.55	3.59		18 4.81	4.96	-0.15
151	12-13	18 16.5	20.6	16.55	3.24		18 17.2	21.0	17.10	3.59		18 13.31	13.51	-0.20
152	12-13	18 23.7	27.6	23.65	3.24		18 24.3	28.1	24.20	3.59		18 20.41	20.61	-0.20
153	13	18	56.0	52.00	3.24		.....	.....	.....	.....		18 48.76	.....	.....
154	13-14	19 35.9	40.1	36.00	3.25		19 36.3	40.3	36.30	3.61		19 32.75	32.69	+0.06
155	12-14	21 18.5	22.5	18.50	3.27		21 19.1	22.9	19.00	3.62		21 15.23	15.38	-0.15
156	12-13	21 38.2	41.9	38.05	3.28		21 38.6	42.7	38.65	3.63		21 34.77	35.02	-0.25
157	11-12	21 39.6	43.5	39.55	3.27		21 40.0	43.8	39.90	3.63		21 36.28	36.27	+0.01
158	14	22 48.5	52.7	48.60	3.30		22 49.1	53.1	49.10	3.64		22 45.30	45.46	-0.16
159	13-14	23 58.5	62.3	58.40	3.31		23 58.7	62.7	58.70	3.65		23 55.09	55.05	+0.04
160	12-13	24 18.1	22.3	18.20	3.31		24 18.5	22.6	18.55	3.65		24 14.89	14.90	-0.01
161	8	.....	.....	.....	.....		24 43.0	47.0	43.00	3.66		24	39.34	.....
162	13	26 12.9	17.0	12.95	3.34		26 13.5	17.3	13.40	3.67		26 9.61	9.73	-0.12
163	13	26 13.9	17.9	13.90	3.32		26 ....	.....	.....	.....		26 10.58	.....	.....
164	.....	.....	.....	.....	.....		26 49.2	53.1	49.15	3.68		26	45.47	.....
165	.....	.....	.....	.....	.....		28 50.6	54.8	50.70	3.70		28	47.01	.....
166	10-12	29 37.2	41.2	37.20	3.38		29 37.5	41.6	37.55	3.71		29 33.82	33.84	-0.02
167	11-12	30 2.9	6.8	2.85	3.37		30 3.2	7.2	3.20	3.71		29 59.48	59.49	-0.01
168	11	30 26.3	30.3	26.30	3.39		30 26.8	30.6	26.70	3.71		30 22.91	22.99	-0.08
169	12	31 50.8	54.8	50.80	3.40		31	55.0	51.00	3.73		31 47.40	47.27	+0.13
170	14	32 14.3	18.1	14.20	3.40		32	18.7	14.70	3.73		32 10.80	10.97	-0.17
171	12-13	33 9.4	13.3	9.35	3.42		33 9.8	13.8	9.80	3.74		33 5.93	6.06	-0.13
172	12-13	33 10.3	14.2	10.25	3.42		33 10.7	14.9	10.80	3.74		33 6.83	7.06	-0.23
173	.....	.....	.....	.....	.....		34 36.2	40.2	36.20	3.76		34	32.44	.....
174	14	34 36.5	40.3	36.40	3.44		34 37.0	40.8	36.90	3.76		34 32.96	33.14	-0.18
175	.....	34 50.0	53.9	49.95	3.44		34 50.3	54.1	50.20	3.76		34 46.51	46.44	+0.07
176	12-13	36 33.0	36.8	32.90	3.46		36 33.3	37.3	33.30	3.78		36 29.44	29.52	-0.08
177	11-12	37 2.9	6.8	2.85	3.47		37 3.3	7.2	3.25	3.78		36 59.38	59.47	-0.09
178	11-12	37 13.4	17.3	13.35	3.47		37 13.8	17.8	13.80	3.78		37 9.88	10.02	-0.14
179	12-13	37 41.3	45.2	41.25	3.46		37 41.7	45.7	41.70	3.79		37 37.79	37.91	-0.12
180	12-13	1 37 59.9	....	59.90	3.47		1 38 0.3	4.3	0.30	3.79		1 37 56.43	56.51	-0.08

A.R. ^{h.}23 ^{m.}44 to ^{h.}1 ^{m.}44.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
136	+ 5 38	-38.3	+ 5 38	-39.2	+ 0 44 59.7	58.8	+ 0.9	
137	4 30	38.0	4 31	38.9	0 43 52.0	52.1	- 0.1	
138	5 13	38.2	5 18	39.1	0 44 34.8	38.9	- 4.1	
139	3 7	37.6	3 9	38.5	0 42 29.4	30.5	- 1.1	
140	1 33	37.2	1 34	38.2	0 40 55.8	55.8	0.0	
141	9 57	39.4	9 52	40.2	0 49 17.6	11.8	+ 5.8	
142	6 35	38.5	6 33	39.4	0 46 56.5	53.6	+ 2.9	
143	1 28	37.2	1 29	38.2	0 40 50.8	50.8	0.0	
144	....	....	1 56	38.3	0 41	17.7	...	
145	7 4	38.6	7 4	39.5	0 46 25.4	24.5	+ 0.9	Clouds in zone 149.
146	....	....	1 12	38.1	0 40	33.9	...	
147	....	....	3 9	38.6	0 42	30.4	...	
148	6 47	38.6	6 46	39.4	0 46 8.4	6.6	+ 1.8	
149	9 50	39.4	9 48	40.2	0 49 10.6	7.8	+ 2.8	
150	4 18	37.9	4 19	38.8	0 43 40.1	40.2	- 0.1	
151	7 32	38.8	7 28	39.6	0 46 53.2	48.4	+ 4.8	
152	7 29	38.8	7 29	39.6	0 46 50.2	49.4	+ 0.8	
153	9 50	39.4	....	....	0 49 10.6	....	...
154	9 3	39.2	9 2	40.0	0 48 23.8	22.0	+ 1.8	No star above 14th mag.
155	9 8	39.2	9 6	40.0	0 48 28.8	26.0	+ 2.8	
156	2 58	37.6	2 58	38.5	0 42 20.4	19.5	+ 0.9	
157	8 49	39.1	8 48	39.9	0 48 9.9	8.1	+ 1.8	
158	0 35	36.9	0 33	37.9	0 39 58.1	55.1	+ 3.0	
159	2 30	37.4	2 30	38.4	0 41 52.6	51.6	+ 1.0	
160	5 39	38.3	5 39	39.1	0 44 60.7	59.9	+ 0.8	
161	....	....	10 38	40.3	0 49	57.7	...	
162	3 54	37.9	3 53	38.7	0 43 16.1	14.3	+ 1.8	
163	10 40	39.6	....	....	0 50 0.4	....	...	Starless field.
164	....	....	7 43	39.6	0 47	3.4	...	
165	....	....	1 37	38.1	0 40	58.9	...	Clouds, zone 149.
166	4 11	37.9	4 12	38.7	0 43 33.1	33.3	- 0.2	
167	8 12	38.9	8 13	39.7	0 47 33.1	33.3	- 0.2	
168	0 40	37.0	0 41	37.9	0 40 3.0	3.1	- 0.1	
169	8 22	39.0	8 20	39.7	0 47 43.0	40.3	+ 2.7	
170	7 3	38.6	7 4	39.4	0 46 24.4	24.6	- 0.2	
171	1 59	37.3	2 0	38.2	0 41 21.7	21.8	- 0.1	
172	5 13	38.1	5 15	39.0	0 44 34.9	36.0	- 1.1	
173	....	....	2 0	38.2	0 41	21.8	...	
174	1 58	37.3	2 0	38.2	0 41 20.7	21.8	- 1.1	
175	....	....	4 12	38.7	0 43	33.3	...	Touched the instrument.
176	4 56	38.1	4 56	38.9	0 44 17.9	17.1	+ 0.8	
177	1 27	37.2	1 26	38.1	0 40 49.8	47.9	+ 1.9	
178	1 32	37.2	1 31	38.1	0 40 54.8	52.9	+ 1.9	
179	10 28	39.5	+10 23	-40.2	0 49 48.5	42.8	+ 5.7	
180	+10 19	-39.5	....	....	+ 0 49 39.5	....	...

ZONE OBSERVATIONS.

A.R. ^h 93 ^m 44 to ^h 1 ^m 44.Dec. [°] +0 40 to [°] 0 50.

Number of the Star.	Magnitude.	ZONE 149.					ZONE 150.					MEAN RIGHT ASCENSION. 1859.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 149.	Zone 150.			
181	12-13	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.		
182	12	1 38 3.3	7.1	3.20	-3.49	1 38 3.7	7.7	3.70	-3.79	1 37 59.71	59.91	-0.20		
183	12-13	38 14.6	18.5	14.55	3.49	38	19.0	15.00	3.79	38 11.06	11.21	-0.15		
184	13	38 48.0	51.8	47.90	3.50	38 48.3	52.2	48.25	3.80	38 44.40	44.45	-0.05		
185	11-13	39 2.9	7.0	2.95	3.49	39 3.2	7.3	3.25	3.80	38 59.46	59.45	+0.01		
186	....	39 32.0	36.0	32.00	3.49	39 32.5	36.5	32.50	3.81	39 28.51	28.69	-0.18	
187	11-12	....	....	....	....	40 4.1	....	4.10	3.81	40	0.29	....	
188	12-13	40 14.5	18.7	14.60	3.51	40 15.0	18.9	14.95	3.81	40 11.09	11.14	-0.05		
189	10-11	40 30.7	34.8	30.75	3.51	40 31.2	35.0	31.10	3.82	40 27.24	27.28	-0.04		
190	12-13	40 55.6	59.6	55.60	3.50	40 56.1	60.1	56.10	3.82	40 52.10	52.28	-0.18		
191	12-13	41 3.0	6.7	2.85	3.51	41	7.1	3.10	3.82	40 59.34	59.28	+0.06		
192	13	41 40.5	44.3	40.40	3.51	41 40.8	44.9	40.85	3.83	41 36.89	37.02	-0.13		
193	13	43 23.0	27.1	23.05	3.53	43 23.1	27.3	23.20	3.84	43 19.52	19.36	+0.16		
194	11-12	43 33.2	37.0	33.10	3.53	43 33.3	37.5	33.40	3.85	43 29.57	29.55	+0.02		
195	11-12	44 14.5	18.6	14.55	3.55	44 15.0	18.8	14.90	3.85	44 11.00	11.05	-0.05		
		1 44 30.1	34.3	30.20	-3.54	1 44 30.6	34.6	30.60	-3.86	1 44 26.66	26.74	-0.08		

A.R. ^{h.} 93 ^{m.} 44 to ^{h.} 1 ^{m.} 44.Dec. +^o 40 to ^o 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1859.0		Difference.	REMARKS.
	Zone 149.	d.	Zone 150.	d.	Zone 149.	Zone 150.		
181	+ 9 59	-39.4	+10 0	-40.1	+ 0 49 19.6	19.9	- 0.3	The focus of the stars does not agree with the focus of the scale, owing probably to cold. Observations difficult to make, and not very reliable, owing to the stars having a sensible disc. Declination of zone 150 correct.
182	+ 3 13	37.6	+ 3 14	38.5	0 42 35.4	35.5	- 0.1	
183	- 0 29	36.7	- 0 30	37.6	0 39 52.3	52.4	- 0.1	
184	+ 4 28	38.0	+ 4 30	38.8	0 43 50.0	51.2	- 1.2	
185	+ 9 19	39.2	9 16	39.9	0 48 39.8	36.1	+ 3.7	
186	....	....	+ 2 20	38.3	0 41	41.7	...
187	- 0 30	36.7	- 0 30	37.6	0 48 53.3	52.4	+ 0.9	
188	+ 2 9	37.4	+ 2 9	38.2	0 41 31.6	30.8	+ 0.8	
189	8 51	39.1	8 52	39.8	0 48 11.9	12.2	- 0.3	
190	4 10	37.9	4 13	38.7	0 43 32.1	34.3	- 2.2	
191	10 13	39.5	10 13	40.2	0 49 33.5	32.8	+ 0.7	
192	7 50	38.8	7 50	39.6	0 47 11.2	10.4	+ 0.8	
193	8 14	38.9	8 12	39.7	0 47 35.1	32.3	+ 2.8	
194	3 38	37.7	3 38	38.5	0 42 60.3	59.5	+ 0.8	
195	+ 7 50	-38.9	+ 7 42	-39.5	+ 0 47 11.1	2.5	+ 8.6	

A.R. ^{h.}1 ^{m.}40 to ^{h.}3 ^{m.}30.Dec. +^o0 [']40 to ^o0 [']50.

Number of the Star.	Magnitude.	ZONE 151.					ZONE 152.					MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 151.	Zone 152.						
1	10-11	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.					
2	11-12	1 40 56.2	60.3	56.25	-0.93	1 41 41.2	45.0	41.10	-0.81	1 40 55.32	.....	.....			
3	12	41 41.0	45.1	41.05	0.94	43 23.5	27.6	23.55	0.83	41 40.11	40.29	-0.18					
4	12	43 23.6	....	23.60	0.95	43 23.5	27.6	23.55	0.83	43 22.65	22.72	-0.07				
5	11-12	43 33.8	37.7	33.85	0.95	43 33.7	37.7	33.70	0.83	43 32.90	32.87	+0.03					
6	10-11	44 15.2	19.2	15.20	0.95	44 15.1	19.1	15.10	0.84	44 14.25	14.26	-0.01					
7	11	44 30.8	34.8	30.80	0.95	44 30.8	34.8	30.80	0.84	44 29.89	29.96	-0.07					
8	12	45 59.8	63.7	59.75	0.96	45 59.7	63.6	59.65	0.86	45 58.79	58.79	0.00					
9	13-14	47 14.6	18.7	14.65	0.97	47 14.8	18.6	14.70	0.87	47 13.68	13.83	-0.15					
10	10-11	47 27.8	31.9	27.85	0.97	47 27.7	31.5	27.60	0.87	47 26.88	26.73	+0.15					
11	13-14	48 8.0	12.0	8.00	0.97	48 8.4	12.2	8.30	0.88	48 7.03	7.42	-0.39					
12	10-11	48 14.6	18.6	14.60	0.97	48 36.8	40.6	36.70	0.88	48 13.63	.....	.....			
13	12	48 36.6	40.4	36.50	0.97	48 36.8	40.6	36.70	0.88	48 35.53	35.82	-0.29					
14	12-13	48 50.8	54.7	50.75	0.97	50 8.2	11.9	8.15	0.90	48 49.78	.....	.....			
15	10-11	50 8.2	12.3	8.25	0.98	50 8.2	11.9	8.15	0.90	50 7.27	7.25	+0.02					
16	.....	50 54.7	58.6	54.65	0.99	50 54.8	58.6	54.70	0.90	50 53.66	53.80	-0.14				
17	11-13	51 43.8	47.8	43.80	0.99	51 6.0	9.9	5.95	0.90	51 5.05	.....	.....			
18	11-12	52 7.5	11.6	7.55	0.99	51 43.9	47.6	43.75	0.91	51 42.81	42.84	-0.03					
19	12-13	52 37.6	41.3	37.45	1.00	52 7.7	11.7	7.70	0.91	52 6.56	6.79	-0.23					
20	12-13	52 42.5	46.9	42.70	1.00	52 37.3	41.1	37.20	0.92	52 36.45	36.28	+0.17					
21	11-14	53 11.2	15.2	11.20	1.00	52 42.4	46.4	42.40	0.92	52 41.70	41.48	+0.22					
22	.....	53 59.3	63.3	59.30	1.00	53 30.0	34.1	30.05	0.92	53 10.20	.....	.....			
23	11-12	54 12.8	16.9	12.85	1.01	53 59.2	63.3	59.25	0.93	53 29.13	.....	.....			
24	13	54 21.4	....	21.40	1.01	54	16.6	12.60	0.93	53 58.30	58.32	-0.02				
25	12	54 28.0	32.0	28.00	1.01	54 21.5	....	21.50	0.93	54 11.84	11.67	+0.17				
26	9-10	55 3.6	7.5	3.55	1.01	54 27.9	31.9	27.90	0.94	54 20.39	20.57	-0.18					
27	12	55 19.7	....	19.70	1.01	55 3.4	7.3	3.35	0.94	54 26.99	26.96	+0.03				
28	13	55 29.2	33.2	29.20	1.01	55	23.4	19.40	0.94	55 2.54	2.41	+0.13					
29	12	55 56.2	60.1	56.15	1.02	55 29.2	33.2	29.20	0.94	55 18.69	18.46	+0.23					
30	9-11	56 35.1	39.0	35.05	1.02	55 56.2	60.2	56.20	0.95	55 28.19	28.26	-0.07					
31	10-11	57 13.3	....	13.30	1.02	56 35.1	39.2	35.15	0.94	55 55.13	55.25	-0.12				
32	12-13	57 22.0	26.0	22.00	1.02	57 13.6	17.4	13.50	0.95	56 34.03	34.21	-0.18					
33	11-12	57 28.6	32.4	28.50	1.02	57 21.9	25.9	21.90	0.96	57 12.28	12.55	-0.27					
34	11-12	58 0.6	4.7	0.65	1.03	57 28.7	32.5	28.60	0.96	57 20.98	20.94	+0.04					
35	13-14	58	50.4	46.40	1.03	58 0.7	4.8	0.75	0.96	57 27.48	27.64	-0.16					
36	13-14	58 56.8	60.5	56.65	1.03	58 46.7	50.8	46.75	0.96	57 59.62	59.79	-0.17					
37	12-13	59 37.0	41.1	37.05	1.04	58 56.8	60.7	56.75	0.97	58 45.37	45.79	-0.42					
38	7-8	1 59 53.8	57.8	53.80	1.04	59 37.0	41.1	37.05	0.97	58 55.62	55.78	-0.16					
39	12-13	2 0 2.2	6.4	2.30	1.04	1 59 53.8	57.7	53.75	0.98	59 36.01	36.08	-0.07					
40	12	0 9.6	13.4	9.50	1.04	.....	.....	.....	.....	1 59 52.76	52.77	-0.01	
41	12	1 25.5	29.4	25.45	1.05	2 0 9.2	13.2	9.20	0.98	2 0 1.26	.....	.....			
42	12-13	1 52.4	56.5	52.45	1.05	1 25.5	29.4	25.45	0.99	0 8.46	8.22	+0.24					
43	12-13	2 10.4	14.3	10.35	1.05	1 52.7	56.3	52.50	0.99	1 24.40	24.46	-0.06					
44	12-13	2 2 39.8	43.7	39.75	-1.05	.....	.....	.....	.....	1 51.40	51.51	-0.11	
45	12	.....	.....	.....	.....	2 2 39.9	43.8	39.85	-1.00	2 9.30	.....	.....			
		.....	.....	.....	.....	.....	.....	.....	.....	2 2 38.70	38.85	-0.15

A.R. ^{h.}1 ^{m.}40 to ^{h.}3 ^{m.}30.Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference	REMARKS.
	Zone 151.	d.	Zone 152.	d.	Zone 151.	Zone 152.		
1	+ 8 50	-18.0	+ 8 50	-16.7	+ 0 48 32.0	33.3	- 1.3	
2	10 13	18.4	10 11	17.2	0 49 54.6	53.8	+ 0.8	
3	7 49	17.9	7 48	16.8	0 47 31.1	31.2	- 0.1	
4	8 13	18.0	8 12	16.8	0 47 55.0	55.2	- 0.2	
5	3 35	16.9	3 33	16.0	0 43 18.1	17.0	+ 1.1	
6	7 41	18.0	7 40	15.8	0 47 23.0	24.2	- 1.2	
7	9 4	18.4	9 4	17.2	0 48 45.6	46.8	- 1.2	
8	8 37	18.5	8 35	17.2	0 48 18.5	17.8	+ 0.7	
9	1 41	16.6	1 41	15.8	0 41 24.4	25.2	- 0.8	
10	6 40	18.0	6 40	16.5	0 46 22.0	23.5	- 1.5	
11	6 33	18.0	....	...	0 46 15.0	....	...
12	+10 10	18.9	+10 12	17.7	0 49 51.1	54.3	- 3.2	
13	- 0 10	16.3	....	...	0 39 33.7	....	...
14	- 0 20	16.3	- 0 22	15.7	0 39 23.7	22.3	+ 1.4	
15	+ 3 35	17.4	+ 3 34	16.5	0 43 17.6	17.5	+ 0.1	
16	....	...	9 26	17.7	0 49	8.3	...	
17	10 27	19.2	10 30	17.9	0 50 7.8	12.1	- 4.3	
18	+10 16	19.2	+10 15	17.9	0 49 56.8	57.1	- 0.3	
19	- 0 14	16.5	- 0 17	16.0	0 39 29.5	27.0	+ 2.5	
20	- 0 3	16.6	- 0 3	16.0	0 39 40.4	41.0	- 0.6	
21	+ 8 0	18.7	....	....	0 47 41.3	....	...
22	....	...	+10 33	18.1	0 50	14.9	...	
23	0 22	16.7	0 21	16.0	0 40 5.3	5.0	+ 0.3	
24	1 20	17.0	1 19	16.3	0 41 3.0	2.7	+ 0.3	
25	6 34	18.4	3 36	16.7	0 46 15.6	....	...
26	+ 0 14	16.8	+ 0 15	16.0	0 39 57.2	59.0	- 1.8	
27	- 0 27	16.7	- 0 23	16.0	0 39 16.3	21.0	- 4.7	
28	+ 3 44	17.1	+ 3 40	16.8	0 43 26.9	23.2	+ 3.7	
29	2 5	17.3	2 8	16.5	0 41 47.7	51.5	- 3.8	
30	1 37	17.2	1 38	16.4	0 41 19.8	21.6	- 1.8	Adjusted focus, zone 151.
31	8 23	19.0	8 23	17.8	0 48 4.0	5.2	- 1.2	
32	8 52	19.2	8 51	18.0	0 48 32.8	33.0	- 0.2	
33	3 59	18.0	4 0	17.0	0 43 41.0	43.0	- 2.0	
34	2 1	17.4	2 0	16.6	0 41 43.6	43.4	+ 0.2	
35	4 28	18.1	4 29	17.2	0 44 9.9	11.8	- 1.9	
36	8 0	19.1	8 3	17.9	0 47 40.9	45.1	- 4.2	
37	4 58	18.3	4 56	17.3	0 44 39.7	38.7	+ 1.0	
38	6 40	18.8	6 39	17.7	0 46 21.2	21.3	- 0.1	
39	0 42	17.3	0 40	16.5	0 40 24.7	23.5	+ 1.2	
40	6 12	18.7	....	...	0 45 53.3	....	...
41	5 59	18.7	5 58	17.6	0 45 40.3	40.4	- 0.1	
42	3 29	18.0	3 29	17.2	0 43 11.0	11.8	- 0.8	
43	2 43	18.0	2 48	17.1	0 42 25.0	30.9	- 5.9	1st declination doubtful.
44	9 45	19.8	....	...	0 49 25.2	....	...	" " "
45	+ 7 41	-19.3	+ 7 33	-18.1	+ 0 47 21.7	14.9	+ 6.8	

A.R. ^{h.}1 ^{m.}40 to ^{h.}2 ^{m.}30.Dec. [°]+6 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 151.						ZONE 152.						MEAN RIGHT ASCENSION. 1860.0				Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	Δ.	First Wire.			Second Wire.	Mean red. to 1st Wire.	Δ.	Zone 151.		Zone 152.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.		s.	
46	11-13	2	3	1.2	5.2	1.20	-1.06	2	3	1.3	5.2	1.25	-1.00	2	3	0.14	0.25	-0.11		
47	12-13		3	48.0	52.1	48.05	1.06		3	48.1	52.0	48.05	1.01		3	46.99	47.04	-0.05		
48	.....		.....	.....	.....	.....	.....		4	20.1	24.1	20.10	1.02		4	.....	19.08	...
49	10-12		4	48.9	52.8	48.85	1.06		4	49.1	53.0	49.05	1.02		4	47.79	48.03	-0.24		
50	11-12		5	26.8	30.6	26.70	1.07		5	26.8	30.8	26.80	1.02		5	25.63	25.78	-0.15		
51	13		6	9.0	13.0	9.00	1.07		6	9.1	13.0	9.05	1.03		6	7.93	8.02	-0.09		
52	12		6	39.3	43.3	39.30	1.07		6	39.3	43.4	39.35	1.03		6	38.23	38.32	-0.09		
53	13-14		7	8.0	12.0	8.00	1.08		7	7.8	11.8	7.80	1.04		7	6.92	6.76	+0.16		
54	12-14		8	22.2	26.1	22.15	1.08		8	22.0	....	22.00	1.05		8	21.07	20.95	+0.12	
55	13		8	33.8	37.8	33.80	1.08		8	33.4	37.5	33.45	1.05		8	32.72	32.40	+0.32		
56	12-13		9	22.2	26.0	22.10	1.09		9	22.1	26.2	22.15	1.06		9	21.01	21.09	-0.08		
57	11-12		9	46.5	50.3	46.40	1.09		9	46.6	50.2	46.40	1.06		9	45.31	45.34	-0.03		
58	13		10	58.4	62.2	58.30	1.09		10	58.5	62.5	58.50	1.08		10	57.21	57.42	-0.21		
59	13		11	28.7	32.9	28.80	1.10		11	29.0	32.7	28.85	1.08		11	27.70	27.77	-0.07		
60	12		12	28.2	31.9	28.05	1.10		12	28.1	32.0	28.05	1.09		12	26.95	26.96	-0.01		
61	10-12		13	34.9	38.9	34.90	1.11		13	35.0	39.1	35.05	1.09		13	33.79	33.96	-0.17		
62	11-12		13	56.8	60.7	56.75	1.11		13	56.9	60.8	56.85	1.09		13	55.64	55.76	-0.12		
63	13-14		15	15.2	18.9	15.05	1.12		15	15.3	18.7	15.00	1.10		15	13.93	13.90	+0.03		
64	12-13		15	37.1	40.9	37.00	1.12		15	37.0	40.8	36.90	1.11		15	35.88	35.79	+0.09		
65	14		16	34.8	38.8	34.80	1.12		.....	.....	.....	.....	.....		16	33.68	.....	.....
66	13-14		17	10.3	14.4	10.35	1.13		17	10.3	14.4	10.35	1.13		17	9.22	9.22	0.00		
67	12-13		17	34.0	38.0	31.00	1.13		17	34.2	38.0	34.10	1.13		17	32.87	32.97	-0.10		
68	12-13		17	55.0	59.0	55.00	1.13		17	55.1	59.1	55.10	1.13		17	54.87	54.97	-0.10		
69	9-11		18	10.1	14.1	10.10	1.13		18	10.3	14.3	10.30	1.13		18	8.97	9.17	-0.20		
70	12-13		18	50.7	54.7	50.70	1.13		18	50.5	54.7	50.60	1.13		18	49.57	49.47	+0.10		
71	12-13		19	8.6	....	8.55	1.14		19	8.5	12.4	8.45	1.13		19	7.41	7.32	+0.09	
72	13-14		19	56.6	60.6	56.60	1.14		19	56.9	60.4	56.65	1.14		19	55.46	55.51	-0.05		
73	13		20	13.3	17.6	13.45	1.14		20	13.6	17.3	13.45	1.15		20	12.31	12.30	+0.01		
74	.....		20	32.1	36.2	32.15	1.14		20	32.2	....	32.20	1.15		20	31.01	31.05	-0.04
75	12-13		20	....	42.8	38.80	1.14		20	38.7	42.9	38.80	1.15		20	37.66	37.65	+0.01	
76	13		21	0.8	4.7	0.75	1.15		21	0.6	4.7	0.65	1.16		20	59.60	59.49	+0.11		
77	13-14		22	13.9	17.7	13.80	1.15		22	13.6	17.8	13.70	1.16		22	12.65	12.54	+0.11		
78	11-12		22	41.1	45.2	41.15	1.15		22	41.3	45.0	41.15	1.17		22	40.00	39.98	+0.02		
79	11-12		22	50.8	54.7	50.75	1.15		22	50.7	54.6	50.65	1.17		22	49.60	49.48	+0.12		
80	11-12		23	6.6	10.6	6.60	1.16		23	6.7	10.7	6.70	1.17		23	5.44	5.53	-0.09		
81	11-12		24	27.4	31.6	27.50	1.16		24	27.7	31.6	27.65	1.19		24	26.34	26.46	-0.12		
82	12		25	16.2	20.3	16.25	1.17		25	....	20.3	16.30	1.19		25	15.08	15.11	-0.03	
83	11-12		25	21.1	25.2	21.15	1.17		25	21.4	25.4	21.40	1.19		25	19.98	20.21	-0.23		
84	13		26	9.3	13.0	9.15	1.17		.....	.....	.....	.....	.....		26	7.98	.....	.....
85	10-12		26	40.6	44.6	40.60	1.17		26	40.9	44.8	40.85	1.21		26	39.43	39.64	-0.21		
86	10-12		26	51.4	55.7	51.55	1.17		26	51.7	55.7	51.70	1.20		26	50.38	50.50	-0.12		
87	12-13		27	35.2	39.4	35.30	1.18		27	35.3	39.3	35.30	1.21		27	34.12	34.09	+0.03		
88	13		28	24.2	28.2	24.20	1.18		28	24.4	28.2	24.30	1.22		28	23.02	23.08	-0.06		
89	13		29	29.1	33.4	29.25	1.19		29	29.4	33.3	29.35	1.23		29	28.06	28.12	-0.06		
90	12-14	2	30	22.0	25.9	21.95	-1.19		2	30	22.1	25.9	22.00	-1.24		2	30	20.76	20.76	0.00

A.R. $\overset{h.}{1} \overset{m.}{40}$ to $\overset{h.}{3} \overset{m.}{30}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 151.	d.	Zone 152.	d.	Zone 151.	Zone 152.		
46	+ 6 7	-18.9	+ 6 6	-17.9	+ 0 45 48.1	48.1	0.0	
47	2 1	17.9	2 0	17.1	0 41 43.1	42.9	+ 0.2	
48	....	....	1 13	17.0	0 40	56.0	...	
49	7 48	19.5	7 48	18.4	0 47 28.5	29.6	- 1.1	
50	7 26	19.6	7 23	18.3	0 47 6.4	4.7	+ 1.7	
51	2 33	18.2	2 32	17.4	0 42 14.8	14.6	+ 0.2	
52	6 50	19.4	6 49	18.3	0 46 30.6	30.7	- 0.1	
53	0 41	17.9	0 41	17.0	0 40 23.1	24.0	- 0.9	No stars above 14th mag.
54	1 59	18.3	1 53	17.5	0 41 40.7	35.5	+ 5.2	
55	2 48	18.5	2 47	17.6	0 42 29.5	29.4	+ 0.1	
56	7 20	19.7	7 15	18.6	0 46 60.3	56.4	+ 3.9	
57	8 49	20.2	8 46	18.9	0 48 28.8	27.1	+ 1.7	
58	0 11	18.0	0 17	17.3	0 39 53.0	59.7	- 6.7	Declination in zone 151 doubtful.
59	1 32	18.4	1 28	17.6	0 41 13.6	10.4	+ 3.2	
60	0 25	18.2	0 22	17.4	0 40 6.8	4.6	+ 2.2	
61	5 56	19.7	5 54	18.6	0 45 36.3	35.4	+ 0.9	
62	6 30	19.9	6 30	18.8	0 46 10.1	11.2	- 1.1	
63	9 30	20.8	9 29	19.5	0 49 9.2	9.5	- 0.3	
64	2 29	19.0	2 29	18.1	0 42 10.0	10.9	- 0.9	
65	1 30	18.8	....	....	0 41 11.2	....	...
66	2 52	19.2	2 49	18.2	0 42 32.8	30.8	+ 2.0	
67	5 40	20.0	5 40	18.9	0 45 20.0	21.1	- 1.1	
68	1 47	19.0	1 42	18.1	0 41 28.0	23.9	+ 4.1	
69	4 48	19.8	4 45	18.7	0 44 28.2	26.3	+ 1.9	
70	9 6	21.0	9 6	19.6	0 48 45.0	46.4	- 1.4	
71	9 49	21.2	9 47	19.8	0 49 27.8	27.2	+ 0.6	
72	6 54	20.5	6 52	19.3	0 46 33.5	32.7	+ 0.8	
73	0 7	18.7	0 4	17.9	0 39 48.3	46.1	+ 2.2	
74	....	....	10 12	20.0	0 49	52.0	...	
75	+ 6 30	20.4	+ 6 32	19.2	0 46 9.6	12.8	- 3.2	
76	- 0 21	18.7	- 0 21	17.9	0 39 20.3	21.1	- 0.8	
77	+ 6 30	20.6	+ 6 29	19.4	0 46 9.4	9.6	- 0.2	
78	- 0 21	19.0	- 0 23	18.1	0 39 20.0	18.9	+ 1.1	
79	+ 5 39	20.4	+ 5 40	19.2	0 45 18.6	20.8	- 2.2	
80	3 9	19.6	3 8	18.8	0 42 49.4	49.2	+ 0.2	
81	1 47	19.5	1 46	18.6	0 41 27.5	27.4	+ 0.1	
82	6 13	20.7	6 18	18.6	0 45 52.3	49.4	+ 2.9	
83	5 36	20.7	5 25	19.4	0 45	5.6	...	
84	4 11	20.3	....	....	0 43 50.7	....	...
85	2 30	19.9	2 28	18.9	0 42 10.1	9.1	+ 1.0	
86	9 16	21.7	9 17	20.3	0 48 54.3	56.7	- 2.4	
87	8 38	21.5	8 34	20.2	0 48 16.5	13.8	+ 2.7	
88	3 5	20.2	3 1	19.2	0 42 44.8	41.8	+ 3.0	
89	3 50	20.5	3 51	19.4	0 43 29.5	31.6	- 2.1	
90	+ 7 0	-21.4	+ 7 0	-20.1	+ 0 46 38.6	39.9	- 1.3	Wind in zone 151.

A.R. $1^{\text{h}} 40^{\text{m}}$ to $3^{\text{h}} 30^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 151.					ZONE 152.					MEAN RIGHT ASCENSION 1860.0			Difference.			
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 151.		Zone 152.				
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.		s.	s.	s.
91	11-12	2	31	0.0	4.2	0.10	-1.20	2	31	0.2	4.0	0.10	-1.24	2	30	58.90	58.86	+0.04
92	11-12		31	13.3	17.3	13.30	1.20		31	13.3	17.4	13.35	1.24		31	12.10	12.11	-0.01
93	12-13		31	.....	.....	.....	1.20		.....	.....	.....	.....	1.25		31	35.80	34.85	.....
94	12		32	13.2	17.3	13.25	1.20		32	13.5	17.5	13.50	1.25		32	12.05	12.25	-0.20
95	9-10		32	23.4	.....	23.40	1.20		32	23.5	27.5	23.50	1.25		32	22.20	22.25	-0.05
96	11-12		33	15.9	19.9	15.90	1.21		33	15.8	19.9	15.85	1.26		33	14.69	14.59	+0.10
97	12-13		34	3.9	7.9	3.90	1.21		34	4.0	8.0	4.00	1.26		34	2.69	2.74	-0.05
98	13		34	35.3	39.4	35.35	1.22		34	35.5	39.2	35.35	1.27		34	34.13	34.08	+0.05
99	10		34	58.0	62.0	58.00	1.22		34	58.0	62.1	58.05	1.28		34	56.78	56.77	+0.01
100	13		35	3.1	7.0	3.05	1.22		35	.....	7.4	3.40	1.27		35	1.83	2.13	-0.30
101	10-11		35	53.3	57.2	53.25	1.23		35	53.3	57.4	53.35	1.28		35	52.02	52.07	-0.05
102	11-12		36	4.3	8.2	4.25	1.23		36	4.6	8.5	4.55	1.28		36	3.02	3.27	-0.25
103	10-11		36	14.1	18.1	14.10	1.23		36	14.2	18.2	14.20	1.29		36	12.87	12.91	-0.04
104	11		37	26.8	.....	26.80	1.23		37	26.9	30.7	26.80	1.30		37	25.57	25.50	+0.07
105	12		39	3.4	7.4	3.40	1.24		39	3.4	7.1	3.25	1.31		39	2.16	1.94	+0.22
106	11-13		39	5.0	9.0	5.00	1.24		39	.....	8.9	4.90	1.31		39	3.76	3.59	+0.17
107	11-12		39	.....	51.1	47.10	1.25		39	.....	51.4	47.40	1.32		39	45.85	46.08	-0.23
108	12-13		39	54.9	59.0	54.95	1.25		.....	.....	.....	.....	.....		39	53.70	.....	.....
109	12-14		39	59.9	63.6	59.85	1.25		.....	.....	.....	.....	.....		39	58.60	.....	.....
110	10-12		40	58.2	62.2	58.20	1.25		40	58.3	62.2	58.25	1.32		40	56.95	56.93	+0.02
111	12-13		41	28.0	.....	28.00	1.26		41	28.0	31.9	27.95	1.33		41	26.74	26.62	+0.12
112	12-13		41	43.3	47.3	43.30	1.26		41	43.4	47.7	43.55	1.33		41	42.04	42.22	-0.18
113	12-13		42	12.4	16.5	12.45	1.26		42	12.5	16.7	12.60	1.33		42	11.19	11.27	-0.08
114	9		42	24.9	29.0	24.95	1.26		42	25.1	29.0	25.05	1.33		42	23.69	23.72	-0.03
115	9-10		43	43.4	.....	43.40	1.27		43	.....	47.6	43.60	1.34		43	42.13	42.26	-0.13
116	10		44	49.1	53.1	49.10	1.27		44	49.1	53.1	49.10	1.36		44	47.83	47.74	+0.09
117	12-13		45	7.0	10.9	6.95	1.28		45	7.3	11.1	7.20	1.36		45	5.67	5.84	-0.17
118	11-13		45	9.7	13.6	9.65	1.28		45	9.9	13.7	9.80	1.36		45	8.37	8.44	-0.07
119	13		45	53.1	57.1	53.10	1.28		45	53.2	57.3	53.25	1.36		45	51.82	51.89	-0.07
120	13		46	22.6	26.6	22.60	1.28		.....	.....	.....	.....	.....		46	21.32	.....	.....
121	11-12		46	36.4	40.4	36.40	1.28		46	36.5	40.7	36.60	1.38		46	35.12	35.22	-0.10
122	10		47	1.2	5.2	1.20	1.29		47	1.6	5.4	1.50	1.38		46	59.91	60.12	-0.21
123	12-13		47	4.1	7.9	4.00	1.29		47	4.1	8.0	4.05	1.38		47	3.71	3.67	+0.04
124	11-12		47	32.2	36.3	32.25	1.29		47	32.3	36.4	32.35	1.38		47	30.96	30.97	-0.01
125	11-13		48	2.0	5.9	1.95	1.29		48	2.3	6.2	2.25	1.39		48	0.66	0.86	-0.20
126	11-13		48	9.3	.....	9.30	1.29		48	9.8	13.4	9.70	1.39		48	8.01	8.31	-0.30
127	10		48	16.5	20.7	16.60	1.29		48	16.9	20.9	16.90	1.39		48	15.31	15.51	-0.20
128	12-13		48	33.0	37.1	33.05	1.29		48	33.5	37.3	33.40	1.39		48	31.76	32.01	-0.25
129	12		48	58.7	62.6	58.65	1.30		48	58.8	62.7	58.75	1.40		48	57.35	57.35	0.00
130	12-13		49	46.5	50.4	46.45	1.30		49	46.7	50.6	46.65	1.40		49	45.15	45.25	-0.10
131	12-13		50	13.8	17.8	13.80	1.30		50	13.8	17.6	13.70	1.41		50	12.50	12.29	+0.21
132	12-13		50	25.9	29.9	25.90	1.30		50	25.9	30.0	25.95	1.41		50	24.60	24.54	+0.06
133	13		50	29.0	32.7	28.85	1.30		.....	.....	.....	.....	.....		50	27.55	.....	.....
134	9-10		50	56.7	60.6	56.65	1.30		50	56.9	60.7	56.80	1.41		50	55.35	55.39	-0.04
135	12-13	2	51	42.5	46.3	42.40	-1.31	2	51	42.4	46.4	42.40	-1.42	2	51	41.09	40.98	+0.11

A.R. $\overset{h}{1} \overset{m}{40}$ to $\overset{h}{3} \overset{m}{30}$ Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 151.	d.	Zone 152.	d.	Zone 151.	Zone 152.		
91	+10 10	-22.2	+10 9	-20.8	+ 0 49 47.8	48.2	- 0.4	
92	9 21	22.0	9 20	20.7	0 48 59.0	59.3	- 0.3	
93	5 48	21.1	5 42	20.0	0 45 26.9	22.0	+ 4.9	
94	7 1	21.5	7 0	20.3	0 46 39.5	39.7	- 0.2	
95	6 8	21.2	6 8	20.1	0 45 46.8	47.9	- 1.1	
96	4 41	20.8	4 39	19.9	0 44 20.2	19.1	+ 1.1	
97	7 24	21.7	7 23	20.5	0 47 2.3	2.5	- 0.2	
98	1 25	20.2	1 36	20.3	0 41 4.8	15.7	...	
99	4 51	21.2	4 49	20.0	0 44 29.8	29.0	+ 0.8	
100	8 49	22.2	8 49	20.8	0 48 26.8	28.2	- 1.4	
101	1 49	20.5	1 47	19.4	0 41 28.5	27.6	+ 0.9	
102	6 6	21.6	6 4	20.3	0 45 44.4	43.7	+ 0.7	
103	2 9	20.5	2 5	19.5	0 41 48.5	45.5	+ 3.0	
104	4 0	21.1	3 58	20.0	0 43 38.9	38.0	+ 0.9	
105	+ 0 33	20.2	+ 0 37	19.4	0 40 12.8	17.6	- 4.8	
106	- 0 29	20.1	- 0 31	19.2	0 39 10.9	9.8	+ 1.1	
107	+ 9 20	22.6	+ 9 18	21.2	0 48 57.4	56.8	+ 0.6	
108	10 30	23.0	10 29	21.5	0 50 7.0	7.5	- 0.5	
109	9 58	22.9	....	....	0 49 35.1	....	...
110	3 38	21.3	3 36	20.2	0 43 16.7	15.8	+ 0.9	
111	5 12	21.8	5 9	20.5	0 44 50.2	48.5	+ 1.7	
112	4 28	21.7	4 22	20.4	0 44 6.3	1.6	+ 4.7	
113	8 39	22.8	8 35	21.3	0 48 16.2	13.7	+ 2.5	
114	7 43	22.5	7 41	21.1	0 47 20.5	19.9	+ 0.6	
115	9 48	23.1	9 48	21.7	0 49 24.9	26.3	- 1.4	
116	3 8	21.5	3 5	20.4	0 42 46.5	44.6	+ 1.9	
117	3 40	21.6	3 39	20.5	0 43 18.4	18.5	- 0.1	
118	2 8	21.2	2 6	20.2	0 41 46.8	45.8	+ 1.0	
119	8 58	23.1	8 52	21.6	0 48 34.9	30.4	+ 4.5	
120	5 24	22.2	....	....	0 45 1.8	....	...
121	1 9	21.1	1 8	20.1	0 40 47.9	47.9	0.0	Distant comp., s. p.
122	3 12	21.7	3 12	20.6	0 42 50.3	51.4	- 1.1	
123	6 30	22.5	6 30	21.3	0 46 7.5	8.7	- 1.2	
124	4 42	22.1	4 40	20.9	0 44 19.9	19.1	+ 0.8	
125	5 58	22.5	5 59	21.2	0 45 35.5	37.8	- 2.3	
126	5 39	22.4	5 38	21.1	0 45 16.6	16.9	- 0.3	
127	7 28	22.9	7 30	21.6	0 47 5.1	8.4	- 3.3	
128	4 10	22.2	4 11	20.9	0 43 48.8	50.1	- 1.3	
129	1 49	21.5	1 47	20.5	0 41 27.5	26.5	+ 1.0	
130	7 21	23.0	7 20	21.6	0 46 58.0	58.4	- 0.4	
131	2 55	21.9	2 51	20.8	0 42 33.1	30.2	+ 2.9	
132	4 29	22.3	4 28	21.1	0 44 6.7	6.9	- 0.2	
133	9 30	23.6	....	....	0 49 6.4	....	...
134	8 49	23.5	8 50	22.0	0 48 25.5	28.0	- 2.5	
135	7 44	-23.2	+ 7 45	-21.8	+ 0 47 20.8	23.2	- 2.4	

A.R. ^{h.}1 ^{m.}40 to ^{h.}3 ^{m.}30.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 151.					ZONE 152.					MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 151.	Zone 152.			
91	11-12	h. 2 m. 31 s. 0.0	s. 4.2	s. 0.10	-1.20	h. 2 m. 31 s. 0.2	s. 4.0	s. 0.10	-1.24	h. 2 m. 30 s. 58.90	s. 58.86	+0.04		
92	11-12	31 13.3	17.3	13.30	1.20	31 13.3	17.4	13.35	1.24	31 12.10	12.11	-0.01		
93	12-13	31 .....	.....	.....	1.20	.....	.....	.....	1.25	31 35.80	34.85	...
94	12	32 13.2	17.3	13.25	1.20	32 13.5	17.5	13.50	1.25	32 12.05	12.25	-0.20		
95	9-10	32 23.4	.....	23.40	1.20	32 23.5	27.5	23.50	1.25	32 22.20	22.25	-0.05	
96	11-12	33 15.9	19.9	15.90	1.21	33 15.8	19.9	15.85	1.26	33 14.69	14.59	+0.10		
97	12-13	34 3.9	7.9	3.90	1.21	34 4.0	8.0	4.00	1.26	34 2.69	2.74	-0.05		
98	13	34 35.3	39.4	35.35	1.22	34 35.5	39.2	35.35	1.27	34 34.13	34.08	+0.05		
99	10	34 58.0	62.0	58.00	1.22	34 58.0	62.1	58.05	1.28	34 56.78	56.77	+0.01		
100	13	35 3.1	7.0	3.05	1.22	35	7.4	3.40	1.27	35 1.83	2.13	-0.30		
101	10-11	35 53.3	57.2	53.25	1.23	35 53.3	57.4	53.35	1.28	35 52.02	52.07	-0.05		
102	11-12	36 4.3	8.2	4.25	1.23	36 4.6	8.5	4.55	1.28	36 3.02	3.27	-0.25		
103	10-11	36 14.1	18.1	14.10	1.23	36 14.2	18.2	14.20	1.29	36 12.87	12.91	-0.04		
104	11	37 26.8	.....	26.80	1.23	37 26.9	30.7	26.80	1.30	37 25.57	25.50	+0.07	
105	12	39 3.4	7.4	3.40	1.24	39 3.4	7.1	3.25	1.31	39 2.16	1.94	+0.22		
106	11-13	39 5.0	9.0	5.00	1.24	39	8.9	4.90	1.31	39 3.76	3.59	+0.17		
107	11-12	39	51.1	47.10	1.25	39	51.4	47.40	1.32	39 45.85	46.08	-0.23		
108	12-13	39 54.9	59.0	54.95	1.25	.....	.....	.....	.....	39 53.70	.....	.....
109	12-14	39 59.9	63.6	59.85	1.25	.....	.....	.....	.....	39 58.60	.....	.....
110	10-12	40 58.2	62.2	58.20	1.25	40 58.3	62.2	58.25	1.32	40 56.95	56.93	+0.02		
111	12-13	41 28.0	.....	28.00	1.26	41 28.0	31.9	27.95	1.33	41 26.74	26.62	+0.12	
112	12-13	41 43.3	47.3	43.30	1.26	41 43.4	47.7	43.55	1.33	41 42.04	42.22	-0.18		
113	12-13	42 12.4	16.5	12.45	1.26	42 12.5	16.7	12.60	1.33	42 11.19	11.27	-0.08		
114	9	42 24.9	29.0	24.95	1.26	42 25.1	29.0	25.05	1.33	42 23.69	23.72	-0.03		
115	9-10	43 43.4	.....	43.40	1.27	43	47.6	43.60	1.34	43 42.13	42.26	-0.13	
116	10	44 49.1	53.1	49.10	1.27	44 49.1	53.1	49.10	1.36	44 47.83	47.74	+0.09		
117	12-13	45 7.0	10.9	6.95	1.28	45 7.3	11.1	7.20	1.36	45 5.67	5.84	-0.17		
118	11-13	45 9.7	13.6	9.65	1.28	45 9.9	13.7	9.80	1.36	45 8.37	8.44	-0.07		
119	13	45 53.1	57.1	53.10	1.28	45 53.2	57.3	53.25	1.36	45 51.82	51.89	-0.07		
120	13	46 22.6	26.6	22.60	1.28	.....	.....	.....	.....	46 21.32	.....	.....
121	11-12	46 36.4	40.4	36.40	1.28	46 36.5	40.7	36.60	1.38	46 35.12	35.22	-0.10		
122	10	47 1.2	5.2	1.20	1.29	47 1.6	5.4	1.50	1.38	46 59.91	60.12	-0.21		
123	12-13	47 4.1	7.9	4.00	1.29	47 4.1	8.0	4.05	1.38	47 3.71	3.67	+0.04		
124	11-12	47 32.2	36.3	32.25	1.29	47 32.3	36.4	32.35	1.38	47 30.96	30.97	-0.01		
125	11-13	48 2.0	5.9	1.95	1.29	48 2.3	6.2	2.25	1.39	48 0.66	0.86	-0.20		
126	11-13	48 9.3	.....	9.30	1.29	48 9.8	13.4	9.70	1.39	48 8.01	8.31	-0.30	
127	10	48 16.5	20.7	16.60	1.29	48 16.9	20.9	16.90	1.39	48 15.31	15.51	-0.20		
128	12-13	48 33.0	37.1	33.05	1.29	48 33.5	37.3	33.40	1.39	48 31.76	32.01	-0.25		
129	12	48 58.7	62.6	58.65	1.30	48 58.8	62.7	58.75	1.40	48 57.35	57.35	0.00		
130	12-13	49 46.5	50.4	46.45	1.30	49 46.7	50.6	46.65	1.40	49 45.15	45.25	-0.10		
131	12-13	50 13.8	17.8	13.80	1.30	50 13.8	17.6	13.70	1.41	50 12.50	12.29	+0.21		
132	12-13	50 25.9	29.9	25.90	1.30	50 25.9	30.0	25.95	1.41	50 24.60	24.54	+0.06		
133	13	50 29.0	32.7	28.85	1.30	.....	.....	.....	.....	50 27.55	.....	.....
134	9-10	50 56.7	60.6	56.65	1.30	50 56.9	60.7	56.80	1.41	50 55.35	55.39	-0.04		
135	12-13	2 51 42.5	46.3	42.40	-1.31	2 51 42.4	46.4	42.40	-1.42	2 51 41.09	40.98	+0.11		

A.R. ^{h.}1 ^{m.}40 to ^{h.}3 ^{m.}30Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 151.	d.	Zone 152.	d.	Zone 151.	Zone 152.		
91	+10 10	-22.2	+10 9	-20.8	+ 0 49 47.8	48.2	- 0.4	
92	9 21	22.0	9 20	20.7	0 48 59.0	59.3	- 0.3	
93	5 48	21.1	5 42	20.0	0 45 26.9	22.0	+ 4.9	
94	7 1	21.5	7 0	20.3	0 46 39.5	39.7	- 0.2	
95	6 8	21.2	6 8	20.1	0 45 46.8	47.9	- 1.1	
96	4 41	20.8	4 39	19.9	0 44 20.2	19.1	+ 1.1	
97	7 24	21.7	7 23	20.5	0 47 2.3	2.5	- 0.2	
98	1 25	20.2	1 36	20.3	0 41 4.8	15.7	...	
99	4 51	21.2	4 49	20.0	0 44 29.8	29.0	+ 0.8	
100	8 49	22.2	8 49	20.8	0 48 26.8	28.2	- 1.4	
101	1 49	20.5	1 47	19.4	0 41 28.5	27.6	+ 0.9	
102	6 6	21.6	6 4	20.3	0 45 44.4	43.7	+ 0.7	
103	2 9	20.5	2 5	19.5	0 41 48.5	45.5	+ 3.0	
104	4 0	21.1	3 58	20.0	0 43 38.9	38.0	+ 0.9	
105	+ 0 33	20.2	+ 0 37	19.4	0 40 12.8	17.6	- 4.8	
106	- 0 29	20.1	- 0 31	19.2	0 39 10.9	9.8	+ 1.1	
107	+ 9 20	22.6	+ 9 18	21.2	0 48 57.4	56.8	+ 0.6	
108	10 30	23.0	10 29	21.5	0 50 7.0	7.5	- 0.5	
109	9 58	22.9	....	....	0 49 35.1	....	...
110	3 38	21.3	3 36	20.2	0 43 16.7	15.8	+ 0.9	
111	5 12	21.8	5 9	20.5	0 44 50.2	48.5	+ 1.7	
112	4 28	21.7	4 22	20.4	0 44 6.3	1.6	+ 4.7	
113	8 39	22.8	8 35	21.3	0 48 16.2	13.7	+ 2.5	
114	7 43	22.5	7 41	21.1	0 47 20.5	19.9	+ 0.6	
115	9 48	23.1	9 48	21.7	0 49 24.9	26.3	- 1.4	
116	3 8	21.5	3 5	20.4	0 42 46.5	44.6	+ 1.9	
117	3 40	21.6	3 39	20.5	0 43 18.4	18.5	- 0.1	
118	2 8	21.2	2 6	20.2	0 41 46.8	45.8	+ 1.0	
119	8 58	23.1	8 52	21.6	0 48 34.9	30.4	+ 4.5	
120	5 24	22.2	....	....	0 45 1.8	....	...
121	1 9	21.1	1 8	20.1	0 40 47.9	47.9	0.0	Distant comp., s. p.
122	3 12	21.7	3 12	20.6	0 42 50.3	51.4	- 1.1	
123	6 30	22.5	6 30	21.3	0 46 7.5	8.7	- 1.2	
124	4 42	22.1	4 40	20.9	0 44 19.9	19.1	+ 0.8	
125	5 58	22.5	5 59	21.2	0 45 35.5	37.8	- 2.3	
126	5 39	22.4	5 38	21.1	0 45 16.6	16.9	- 0.3	
127	7 28	22.9	7 30	21.6	0 47 5.1	8.4	- 3.3	
128	4 10	22.2	4 11	20.9	0 43 48.8	50.1	- 1.3	
129	1 49	21.5	1 47	20.5	0 41 27.5	26.5	+ 1.0	
130	7 21	23.0	7 20	21.6	0 46 58.0	58.4	- 0.4	
131	2 55	21.9	2 51	20.8	0 42 33.1	30.2	+ 2.9	
132	4 29	22.3	4 28	21.1	0 44 6.7	6.9	- 0.2	
133	9 30	23.6	....	....	0 49 6.4	....	...
134	8 49	23.5	8 50	22.0	0 48 25.5	28.0	- 2.5	
135	7 44	-23.2	+ 7 45	-21.8	+ 0 47 20.8	23.2	- 2.4	

A.R. ^{h.}1 ^{m.}40 to ^{h.}2 ^{m.}30.Dec. ⁰+0 40 to ⁰0 50.

Number of the Star.	Magnitude.	ZONE 151.					ZONE 152.					MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 151.		Zone 152.			
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		
136	10	2 51	53.9	57.9	53.90	-1.31	2 51	54.0	58.0	54.00	-1.42	2 51	52.59	52.58	+0.01		
137	8-9	52	5.3	9.4	5.35	1.31	52	5.6	9.4	5.50	1.43	52	4.04	4.07	-0.03		
138	12-13	52	21.9	26.0	21.95	1.31	52	22.2	26.0	22.10	1.43	52	20.64	20.67	-0.03		
139	12	53	37.9	41.8	37.85	1.32	53	38.0	42.0	38.00	1.44	53	36.53	36.56	-0.03		
140	12	54	13.4	17.4	13.40	1.32	54	13.5	17.6	13.55	1.44	54	12.08	12.11	-0.03		
141	12	54	15.7	19.5	15.60	1.82	54	....	19.4	15.40	1.45	54	14.28	13.95	+0.33	
142	13	55	21.9	25.9	21.90	1.33	.....	.....	.....	.....	.....	55	20.57	.....	.....
143	8-9	55	58.6	62.4	58.50	1.33	55	58.8	62.8	58.80	1.45	55	57.17	57.35	-0.18		
144	10-11	56	16.0	20.0	16.00	1.33	56	16.0	20.0	16.00	1.46	56	14.67	14.54	+0.13		
145	12-13	56	33.8	37.7	33.75	1.33	56	33.9	38.0	33.95	1.46	56	32.42	32.49	-0.07		
146	12	56	59.7	63.5	59.60	1.33	56	59.8	63.7	59.75	1.47	56	58.27	58.28	-0.01		
147	11-12	57	46.2	50.0	46.10	1.34	57	46.2	50.0	46.10	1.46	57	44.76	44.64	+0.12		
148	12-13	58	4.6	8.9	4.75	1.34	.....	.....	.....	.....	.....	58	3.41	.....	.....
149	10-12	58	8.0	11.8	7.90	1.34	58	8.0	11.9	7.95	1.47	58	6.56	6.48	+0.08		
150	12-13	58	45.9	49.9	45.90	1.34	58	45.9	50.0	45.95	1.47	58	44.56	44.48	+0.08		
151	8-9	2 59	36.2	40.3	36.25	1.35	2 59	36.6	40.4	36.50	1.49	2 59	34.90	35.11	-0.21		
152	10-11	3 0	29.7	33.7	29.70	1.35	3 0	29.8	33.7	29.75	1.49	3 0	28.35	28.26	+0.09		
153	12	1 4.2	8.0	4.10	1.36		1 4.5	8.3	4.40	1.49		1 2.74	2.91	-0.17			
154	12-13	1 31.9	36.1	32.00	1.36		1 32.1	36.4	32.25	1.50		1 30.64	30.75	-0.11			
155	11-12	2 7.0	10.8	6.90	1.36		2 7.3	11.2	7.25	1.50		2 5.54	5.75	-0.21			
156	12-13	2 43.0	47.0	43.00	1.36		2 43.3	47.1	43.20	1.51		2 41.64	41.69	-0.05			
157	13	2 55.7	59.8	55.75	1.36		.....	.....	.....	.....		2 54.39	.....	.....	
158	13	3 0.6	4.0	0.30	1.37		.....	.....	.....	.....		2 58.93	.....	.....	
159	12-13	3 30.5	34.8	30.65	1.37		3 31.1	35.0	31.05	1.52		3 29.28	29.53	-0.25			
160	12	3 32.4	36.4	32.40	1.37		3 32.7	36.6	32.65	1.51		3 31.03	31.14	-0.11			
161	11	3 49.4	53.4	49.40	1.37		3 49.7	53.6	49.65	1.52		3 48.03	48.13	-0.10			
162	10-11	4 13.1	17.2	13.15	1.37		4 13.5	17.3	13.40	1.52		4 11.78	11.88	-0.10			
163	12-13	4 25.0	29.1	25.05	1.37		4 25.4	29.3	25.35	1.53		4 23.68	23.82	-0.14			
164	12	4 47.1	51.1	47.10	1.37		4 47.4	51.1	47.25	1.53		4 45.73	45.72	+0.01			
165	12	5 19.8	23.8	19.80	1.38		5 20.0	24.0	20.00	1.53		5 18.42	18.47	-0.05			
166	11-12	5	49.5	45.50	1.38		5 45.8	49.7	45.75	1.54		5 44.12	44.21	-0.09			
167	9-11	5 50.7	54.7	50.70	1.38		5 50.8	54.9	50.85	1.54		5 49.32	49.31	+0.01			
168	10-11	7 5.9	9.0	5.95	1.39		7 5.7	10.0	5.85	1.55		7 4.56	4.30	+0.26			
169	13-14	7 39.0	43.1	39.05	1.39		7 39.3	43.2	39.25	1.55		7 37.66	37.70	-0.04			
170	10-12	8 27.4	31.4	27.40	1.39		8 27.6	31.4	27.50	1.57		8 26.01	25.93	+0.08			
171	14	9 17.8	....	17.80	1.40		9 17.9	21.8	17.85	1.57		9 16.40	16.28	+0.12		
172	11-12	9 44.0	48.1	44.05	1.40		9 44.4	48.3	44.35	1.57		9 42.65	42.78	-0.13			
173	13-14	10 6.0	10.1	6.05	1.40		.....	.....	.....	.....		10 4.65	.....	.....	
174	13	10 18.4	22.3	18.35	1.40		10 18.4	22.5	18.45	1.58		10 16.95	16.87	+0.08			
175	12-14	10 49.8	53.6	49.70	1.40		10 50.0	53.8	49.90	1.58		10 48.30	48.32	-0.02			
176	11-12	11 40.3	44.3	40.30	1.41		11 40.6	44.4	40.50	1.59		11 38.89	38.91	-0.02			
177	8-9	12 33.3	37.3	33.30	1.42		12 33.5	37.5	33.50	1.60		12 31.88	31.90	-0.02			
178	13	13 4.0	8.0	4.00	1.42		13	7.9	3.90	1.60		13 2.58	2.30	+0.28			
179	10-11	13 19.5	23.5	19.50	1.42		13 19.6	23.7	19.65	1.61		13 18.06	18.04	+0.04			
180	9-10	3 13 41.1	44.9	41.00	-1.42		3 13 41.2	45.0	41.10	-1.61		3 13 39.58	39.49	+0.09			

A.R. ^{h.}1 ^{m.}40 to ^{h.}3 ^{m.}30.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 151.	d.	Zone 152.	d.	Zone 151.	Zone 152.		
136	+ 9 15	-23.7	+ 9 13	-22.2	+ 0 48 51.3	50.8	+ 0.5	
137	1 21	21.6	1 22	20.6	0 40 59.4	61.4	- 2.0	
138	5 3	22.6	5 4	21.4	0 44 40.4	42.6	- 2.2	
139	5 53	22.9	5 55	21.4	0 45 30.1	33.6	- 3.5	
140	9 59	24.0	9 9	22.3	0 49 35.0	....	...
141	3 6	23.2	3 4	21.1	0 42 42.8	42.9	- 0.1	
142	5 30	23.0	....	....	0 45 7.0	....	...
143	9 22	24.0	9 22	22.5	0 48 58.0	59.5	- 1.5	
144	2 18	22.2	2 18	21.1	0 41 55.8	56.9	- 1.1	
145	6 58	23.4	6 58	22.0	0 46 34.6	36.0	- 1.4	
146	1 14	22.0	1 13	20.9	0 40 52.0	52.1	- 0.1	
147	7 40	23.7	+ 7 41	22.3	0 47 16.3	18.7	- 2.4	
148	+ 7 0	23.6	....	....	0 46 36.4	....	...
149	- 0 21	21.7	- 0 28	20.7	0 39 17.3	11.3	+ 6.0	Some stars misplaced here.
150	+ 3 52	22.8	+ 3 50	21.6	0 43 29.2	28.4	+ 0.8	
151	0 3	21.9	0 3	20.7	0 39 41.1	40.3	+ 0.8	
152	0 29	21.9	0 26	21.0	0 40 7.1	5.0	+ 2.1	
153	7 0	23.8	6 59	22.4	0 46 36.2	36.6	- 0.4	Apparent disc.
154	3 11	22.8	3 9	21.7	0 42 48.2	47.3	+ 0.9	
155	8 59	24.4	8 56	22.9	0 48 34.6	33.1	+ 1.5	
156	4 41	23.3	4 41	22.1	0 44 17.7	18.9	- 1.2	
157	2 29	22.8	....	....	0 42 6.2	....	...
158	5 21	23.5	....	....	0 44 57.5	....	...
159	6 1	23.7	6 0	22.4	0 45 37.3	37.6	- 0.3	
160	7 58	24.2	7 50	22.7	0 47 33.8	27.3	+ 6.5	
161	4 42	23.4	4 41	22.1	0 44 18.6	18.9	- 0.3	
162	4 42	23.4	4 41	22.1	0 44 18.6	18.9	- 0.3	
163	4 8	23.3	4 5	22.1	0 43 44.7	42.9	+ 1.8	
164	1 9	22.5	1 6	21.5	0 40 46.5	44.5	+ 2.0	
165	+ 8 47	24.6	+ 8 43	23.1	0 48 22.4	19.9	+ 2.5	
166	- 0 12	22.3	- 0 11	21.4	0 39 25.7	27.6	- 1.9	
167	+ 5 37	23.8	+ 5 34	22.5	0 45 13.2	11.5	+ 1.7	
168	5 19	23.8	5 18	22.5	0 44 55.2	55.5	- 0.3	
169	+ 4 48	23.7	+ 4 42	22.4	0 44 24.3	19.6	+ 4.7	
170	- 0 15	22.5	- 0 20	21.5	0 39 22.5	18.5	+ 4.0	
171	+ 1 12	22.9	....	....	0 40 49.1	....	...
172	2 29	23.2	+ 2 28	22.2	0 42 5.8	5.8	0.0	
173	+ 7 20	24.5	....	....	0 46 55.5	....	...
174	- 0 2	22.6	- 0 7	21.7	0 39 35.4	31.3	+ 4.1	
175	+10 11	25.3	+10 9	23.8	0 49 45.7	45.2	+ 0.5	A meteor passed the field from south to north.
176	4 26	23.9	4 27	22.7	0 44 2.1	4.3	- 2.2	
177	1 38	23.2	1 36	22.2	0 41 14.8	13.8	+ 1.0	
178	4 29	24.0	4 27	22.8	0 44 5.0	4.2	+ 0.8	
179	+ 0 17	22.9	+ 0 14	22.0	0 39 54.1	52.0	+ 2.1	
180	- 0 7	-22.9	- 0 10	-22.0	+ 0 39 30.1	28.0	+ 2.1	

A.R. $\overset{h}{1} \overset{m}{40}$ to $\overset{h}{3} \overset{m}{30}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 151.					ZONE 152.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 151.		Zone 152.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	
181	12-13	3 14 3.2	....	3.20	-1.42		3 14 3.4	7.2	3.30	-1.61		3 14 1.78	1.69	+0.09	
182	12	14 25.8	29.7	25.75	1.43		14 26.0	30.0	26.00	1.61		14 24.32	24.39	-0.07	
183	12	14 26.4	30.6	26.50	1.43		14 26.8	30.7	26.75	1.61		14 25.07	25.14	-0.07	
184	12-13	14 27.7	31.4	27.55	1.43		.....	.....	.....	.....		14 26.12	.....	.....
185	12	15 12.9	17.0	12.95	1.43		15 13.0	17.0	13.00	1.62		15 11.52	11.38	+0.14	
186	9	15 38.3	42.3	38.30	1.43		15 38.3	42.2	38.25	1.62		15 36.87	36.63	+0.24	
187	13	15 40.1	44.1	40.10	1.43		15	44.1	40.10	1.62		15 38.67	38.48	+0.19	
188	13-14	16 30.4	34.6	30.50	1.44		16 30.5	34.7	30.60	1.63		16 29.06	28.97	....
189	10-11	16 53.3	57.3	53.30	1.44		16 53.5	57.5	53.50	1.63		16 51.86	51.87	-0.01	
190	12-13	17 22.0	26.0	22.00	1.44		17 22.0	26.1	22.05	1.63		17 20.56	20.42	+0.14	
191	13	17 23.4	27.3	23.35	1.44		.....	.....	.....	.....		17 21.91	.....	.....
192	12-13	18 12.3	16.2	12.25	1.45		18 12.3	16.3	12.30	1.64		18 10.80	10.66	+0.14	
193	10	19 9.7	13.7	9.70	1.45		19 10.0	13.9	9.95	1.65		19 8.25	8.30	-0.05	
194	13	19 10.6	14.6	10.60	1.46		.....	.....	.....	.....		19 9.16	.....	.....
195	14	19 57.2	61.2	57.20	1.46		19 57.3	61.3	57.30	1.66		19 55.74	55.64	+0.10	
196	12	20 26.6	30.4	26.50	1.46		20 26.7	30.8	26.75	1.66		20 25.04	25.09	-0.05	
197	12	21 2.2	6.0	2.10	1.47		21 2.3	6.1	2.20	1.67		21 0.63	0.53	+0.10	
198	12-13	21 27.6	31.3	27.45	1.47		21 28.0	31.7	27.85	1.66		21 25.98	26.19	-0.21	
199	11-12	21 39.1	43.1	39.10	1.47		21 39.4	43.4	39.40	1.67		21 37.63	37.73	-0.10	
200	10-11	21 56.5	60.6	56.55	1.47		21 56.9	60.7	56.80	1.67		21 55.08	55.13	-0.05	
201	12-13	22 35.0	38.9	34.95	1.47		22 35.1	....	35.10	1.68		22 33.48	33.42	+0.06	
202	11-12	22 45.8	49.7	45.75	1.47		22 45.9	49.9	45.90	1.68		22 44.28	44.22	+0.06	
203	10-11	22 50.5	54.4	50.45	1.47		22 50.7	54.6	50.65	1.68		22 48.98	48.87	+0.11	
204	12	24 0.5	4.7	0.60	1.48		24 0.8	4.8	0.80	1.69		23 59.12	59.11	+0.01	
205	11	25 19.7	23.4	19.55	1.49		25 19.6	23.6	19.60	1.71		25 18.06	17.89	+0.17	
206	13	25 56.0	60.0	56.00	1.49		25 56.2	....	56.20	1.71		25 54.51	54.49	+0.02	
207	11-12	26 36.3	....	36.30	1.49		26 36.5	40.5	36.50	1.71		26 34.81	34.79	+0.02	
208	11-13	26 49.4	53.4	49.40	1.49		26 49.5	53.6	49.55	1.71		26 47.91	47.84	+0.07	
209	11	27 39.0	43.1	39.05	1.50		27 39.4	43.4	39.40	1.71		27 37.55	37.69	-0.14	
210	13-14	27	54.2	50.20	1.50		.....	.....	.....	.....		27 48.70	.....	.....
211	13	28 8.8	12.9	8.85	1.50		28 9.2	13.0	9.10	1.73		28 7.35	7.37	-0.02	
212	11-12	28 15.3	19.0	15.15	1.50		28	19.5	15.50	1.73		28 13.65	13.77	-0.12	
213	11-12	28 18.0	22.1	18.05	1.50		28 18.3	22.3	18.30	1.73		28 16.55	16.57	-0.02	
214	10-12	28 35.8	39.9	35.85	1.50		28 36.0	40.1	36.05	1.73		28 34.35	34.32	+0.03	
215	9-10	29 53.5	57.4	53.45	1.51		29 53.8	57.8	53.80	1.74		29 51.94	52.06	-0.12	
216	9-10	30 27.0	31.0	27.00	1.51		30 27.2	31.2	27.20	1.75		30 25.49	25.45	+0.04	
217	....	30 25.5	....	25.50	1.51		.....	.....	.....	.....		30 23.99	.....	.....
218	12	30 36.2	40.1	36.15	1.51		30 36.3	40.3	36.30	1.75		30 34.64	34.55	+0.09	
219	12	30 41.2	45.3	41.25	1.51		3 30 41.4	45.3	41.35	-1.75		30 39.74	39.60	+0.14	
220	14	3 30 59.7	63.4	59.55	-1.51		.....	.....	.....	.....		3 30 58.04	.....	.....

A.R. $1^{\text{h}} 40^{\text{m}}$ to $3^{\text{h}} 30^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 151.	d.	Zone 152.	d.	Zone 151.	Zone 152.		
181	+ 1 40	-23.4	+ 1 37	-22.3	+ 0 41 16.6	14.7	+ 1.9	
182	3 49	24.0	3 46	22.8	0 43 25.0	23.2	+ 1.8	
183	3 30	23.9	3 29	22.7	0 43 6.1	6.3	- 0.2	
184	6 6	24.5	....	....	0 45 41.5	....	...
185	+ 3 20	23.9	+ 3 18	22.8	0 42 56.1	55.2	+ 0.9	
186	- 0 7	23.1	- 0 10	22.1	0 39 29.9	27.9	+ 2.0	
187	+ 0 59	23.4	+ 0 57	22.4	0 40 35.6	34.6	+ 1.0	
188	1 22	23.4	1 18	22.5	0 40 58.6	55.5	...	A circular nebulosity.
189	9 20	25.6	9 19	24.1	0 48 54.4	54.9	- 0.5	
190	7 59	25.3	7 58	23.9	0 47 33.7	34.1	- 0.4	
191	5 21	24.6	....	....	0 44 56.4	....	...
192	6 18	24.9	6 11	23.6	0 45 53.1	47.4	+ 5.7	
193	4 41	24.5	4 41	24.4	0 44 16.5	16.6	- 0.1	Comp., s. f., 15".
194	0 12	23.4	....	....	0 39 48.6	....	...
195	0 58	23.6	0 49	22.6	0 40 34.4	26.4	+ 8.0	Declination in zone 152 correct.
196	2 0	23.9	1 59	22.9	0 41 36.1	36.1	0.0	
197	3 10	24.2	3 9	23.2	0 42 45.8	45.8	0.0	
198	9 38	26.1	9 34	24.5	0 49 11.9	9.5	+ 2.4	
199	3 58	24.6	3 57	23.4	0 43 33.4	33.6	- 0.2	
200	9 18	26.0	9 18	24.5	0 48 52.0	53.5	- 1.5	
201	1 52	24.1	1 50	24.1	0 41 27.9	25.9	+ 2.0	
202	5 53	25.2	5 52	23.9	0 45 27.8	28.1	- 0.3	
203	1 46	24.1	1 47	23.1	0 41 21.9	23.9	- 2.0	
204	3 25	24.6	3 23	24.5	0 42 60.4	58.5	+ 1.9	No star above 16th mag.
205	0 41	24.0	0 41	23.0	0 40 17.0	18.0	- 1.0	
206	1 38	24.3	1 34	23.2	0 41 13.7	10.8	+ 2.9	
207	10 50	26.7	10 52	25.1	0 50 23.3	26.9	- 3.6	
208	6 33	25.6	6 31	24.3	0 46 7.4	6.7	+ 0.7	
209	10 13	26.6	10 13	25.1	0 49 46.4	47.9	- 1.5	
210	6 0	25.6	....	....	0 45 34.4	....	...
211	0 8	24.1	0 56	23.3	0 40	32.7	...	
212	8 1	26.1	8 4	24.7	0 47 34.9	39.3	- 4.4	
213	8 19	26.2	8 20	24.8	0 47 52.8	55.2	- 2.4	
214	4 34	25.3	4 34	24.0	0 44 8.7	10.0	- 1.3	
215	+ 9 54	26.8	+ 9 54	25.2	0 49 27.2	28.8	- 1.6	
216	- 0 2	24.2	- 0 3	23.2	0 39 33.8	33.8	0.0	
217	+ 6 53	26.0	....	....	0 46 27.0	....	...
218	3 59	25.3	+ 3 58	24.0	0 43 33.7	34.0	- 0.3	
219	4 38	25.4	+ 4 38	-24.2	0 44 12.6	13.8	- 1.2	
220	+ 7 8	-26.1	....	....	+ 0 46 41.9	....	...

A.R. ^{h.} 2 ^{m.} 9 to ^{h.} 3 ^{m.} 47.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 153.					ZONE 155.					MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 153.		Zone 155.			
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	
1	9	2 9 57.0	60.9	56.95	+2.50		2 9 58.7	62.4	58.55	+0.86		2 9 59.45	59.41	+0.04			
2	11-12	12 29.8	33.7	29.75	2.48		12 31.5	35.5	31.50	0.85		12 32.23	32.35	-0.12			
3	11-12	13 5.5	....	5.50	2.48		13 7.0	....	7.00	0.87		13 7.98	7.87	+0.11			
4	9	13 9.8	13.7	9.75	2.48		13 11.3	15.4	11.35	0.87		13 12.23	12.22	+0.01			
5	10-11	13 48.7	52.9	48.80	2.47		13 50.3	54.2	50.25	0.87		13 51.27	51.12	+0.15			
6	.....	14 4.9	8.7	4.80	2.46		14 6.4	10.3	6.35	0.88		14 7.26	7.23	+0.03			
7	13	15 28.2	32.0	28.10	2.45		15 28.3	....	28.30	0.83		15 .....	.....	.....	
8	13	15 51.0	54.9	50.95	2.44		15 52.6	56.5	52.55	0.87		15 53.39	53.42	-0.03			
9	10-12	16 9.9	13.8	9.85	2.44		16 11.6	15.4	11.50	0.85		16 12.33	12.35	-0.02			
10	10-12	16	38.8	34.80	2.44		16 36.6	40.6	36.60	0.84		16 37.24	37.44	-0.20			
11	13	17 7.9	11.8	7.85	2.43		17 9.6	13.4	9.50	0.84		17 10.28	10.34	-0.06			
12	12	18 3.5	7.3	3.40	2.42		18 5.1	....	5.10	0.84		18 5.82	5.94	-0.12			
13	8-9	18 8.3	12.4	8.35	2.42		18 9.9	14.0	9.95	0.86		18 10.77	10.81	-0.04			
14	10	18 9.9	13.8	9.85	2.43		.....	.....	.....	.....		18 12.28	.....	.....	
15	10-12	20	42.5	38.50	2.40		20 40.0	44.1	40.05	0.83		20 40.90	40.88	+0.02			
16	.....	20 48.1	52.1	48.10	2.40		20 49.8	....	49.80	0.85		20 50.50	50.65	-0.15			
17	.....	20 50.3	54.1	50.20	2.40		20 52.0	56.0	52.00	0.86		20 52.60	52.86	-0.26			
18	6-8	21 8.1	12.2	8.15	2.39		21 9.9	14.0	9.95	0.82		21 10.54	10.77	-0.23			
19	9	21 50.1	54.1	50.10	2.39		21 51.7	55.7	51.70	0.83		21 52.49	52.53	-0.04			
20	11-12	23 3.7	7.9	3.80	2.38		23 5.5	9.5	5.50	0.84		23 6.18	6.34	-0.16			
21	11-12	23 13.6	17.4	13.50	2.37		23 15.3	19.2	15.25	0.81		23 15.87	16.06	-0.19			
22	11-12	23 26.1	29.9	26.00	2.37		23 27.9	31.8	27.85	0.83		23 28.37	28.68	-0.31			
23	11	23 48.3	....	48.30	2.37		23 50.1	....	50.10	0.84		23 50.67	50.94	-0.27			
24	11-12	23 52.0	56.1	52.05	2.37		23 54.0	57.8	53.90	0.83		23 54.42	54.73	-0.31			
25	8-9	24 1.5	5.6	1.55	2.36		24 3.3	7.2	3.25	0.82		24 3.91	4.07	-0.16			
26	12-13	24 51.3	55.2	51.25	2.35		24 53.3	57.3	53.30	0.82		24 53.60	54.12	-0.52			
27	8-9	25 30.9	34.8	30.85	2.35		25 32.3	36.5	32.40	0.81		25 33.20	33.21	-0.01			
28	13-14	26 13.9	17.2	13.55	2.34		.....	.....	.....	.....		26 15.89	.....	.....	
29	11-12	27 14.6	18.7	14.65	2.33		27 16.2	20.1	16.15	0.80		27 16.98	16.95	-0.03			
30	.....	.....	.....	.....	.....		27 26.3	30.4	26.35	0.83		27	27.18	.....		
31	11-12	27 27.3	31.0	27.15	2.33		27 28.9	32.9	28.90	0.81		27 29.48	29.71	-0.23			
32	12	28 32.8	36.7	32.75	2.32		28 34.2	38.3	34.25	0.81		28 35.07	35.06	+0.01			
33	10-12	28	40.2	36.20	2.32		.....	.....	.....	.....		28 38.52	.....	.....	
34	10-11	28 48.0	52.0	48.00	2.32		28 49.8	53.6	49.70	0.81		28 50.32	50.51	-0.19			
35	11-12	29 30.4	34.4	30.40	2.31		29 32.0	36.0	32.00	0.82		29 32.71	32.82	-0.11			
36	10-12	30 9.5	13.4	9.45	2.31		30 11.0	15.0	11.00	0.83		30 11.76	11.83	-0.07			
37	11-12	30 42.6	46.7	42.65	2.30		30 44.0	48.0	44.00	0.83		30 44.95	44.83	+0.12			
38	12	30 56.7	60.3	56.50	2.29		30 58.2	62.1	58.15	0.79		30 58.79	58.94	-0.15			
39	11-12	31 42.2	46.0	42.10	2.29		31 43.9	47.9	43.90	0.81		31 44.39	44.71	-0.32			
40	.....	31 43.0	47.3	43.15	2.29		31 45.0	49.1	45.05	0.81		31 45.44	45.86	-0.42			
41	11-12	32 9.5	13.3	9.40	2.29		.....	.....	.....	.....		32 11.69	.....	.....	
42	11-12	32 9.8	13.7	9.75	2.29		32 11.3	15.3	11.30	0.80		32 12.04	12.10	-0.06			
43	13	32 54.1	58.0	54.05	2.28		32 56.0	60.0	56.00	0.81		32 56.33	56.81	-0.48			
44	11-12	34 13.2	17.0	13.10	2.27		34 14.7	18.7	14.70	0.80		34 15.37	15.50	-0.13			
45	10-12	2 34 40.6	44.6	40.60	+2.26		2 34 42.0	46.0	42.00	+0.79		2 34 42.86	42.79	+0.07			

A.R. ^{h.}2 ^{m.}9 to ^{h.}3 ^{m.}47.Dec. [°]+0 [']50 to [°]1 [']0.

Number.	MICROMETER READINGS				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 158.	d.	Zone 155.	d.	Zone 158.	Zone 155.		
1	+ 1 20	+ 8.8	+ 1 33	- 5.2	+ 0 51 28.8	27.8	+ 1.0	
2	2 50	8.5	3 5	5.5	0 52 58.5	59.5	- 1.0	
3	7 22	7.7	7 36	6.7	0 57 29.7	29.3	+ 0.4	
4	6 37	7.8	6 49	6.5	0 56 44.8	42.5	+ 2.3	
5	+ 8 43	7.5	8 59	6.9	0 58 50.5	50.1	+ 0.4	
6	....	...	10 28	7.4	1 0	20.6	...	
7	- 0 18	9.0	....	...	0 49 51.0	....	...
8	+ 8 ..	...	8 40	6.9	0 58	33.1	...	
9	3 20	8.4	3 38	5.6	0 53 28.4	32.4	- 4.0	
10	1 41	8.6	1 57	5.2	0 51 49.6	51.8	- 2.2	
11	2 2	8.6	2 17	5.3	0 52 10.6	11.7	- 1.1	
12	1 32	8.7	1 49	5.2	0 51 40.7	43.8	- 3.1	
13	6 58	7.7	7 12	6.5	0 57 5.7	5.5	+ 0.2	
14	9 33	7.3	....	...	0 59 40.3	....	...
15	4 0	8.2	4 16	5.8	0 54 8.2	10.2	- 2.0	
16	8 23	7.5	8 39	5.9	0 58 30.5	32.1	- 2.6	
17	9 20	7.3	9 34	7.1	0 59 27.3	26.9	+ 0.4	A brighter star not observed.
18	1 11	8.7	1 27	5.1	0 51 19.7	21.9	- 2.2	
19	4 0	8.2	4 15	5.7	0 54 8.2	9.3	- 1.1	
20	7 3	7.7	7 18	6.5	0 57 10.7	11.5	- 0.8	
21	0 12	8.8	0 29	4.8	0 50 20.8	24.2	- 3.4	
22	4 ..	...	4 30	5.8	0 54	24.2	...	
23	7 9	7.7	7 23	6.5	0 57 16.7	16.5	+ 0.2	
24	6 11	7.8	6 28	6.3	0 56 18.8	21.7	- 2.9	
25	3 24	8.3	3 37	8.2	0 53 32.3	31.8	+ 0.5	
26	3 37	8.2	3 52	5.2	0 53 45.2	46.8	- 1.6	
27	1 7	8.7	1 22	4.8	0 51 15.7	17.2	- 1.5	
28	0 10	8.8	....	...	0 50 9.8	....	...
29	0 24	8.8	0 38	4.7	0 50 32.8	33.3	- 0.5	
30	....	...	7 53	6.6	0 57	46.4	...	
31	2 0	8.5	2 18	5.2	0 52 8.5	12.8	- 4.3	A small nebula, n. p. 6".
32	7 20	7.6	....	...	0 57 27.6	....	...
33	3 10	8.3	....	...	0 53 18.3	....	...
34	3 17	8.3	3 30	5.5	0 53 25.3	24.5	+ 0.8	
35	7 2	7.6	7 16	6.4	0 57 9.6	9.6	0.0	
36	10 28	7.0	10 39	7.3	1 0 35.0	31.7	+ 3.3	
37	+ 9 39	7.1	+ 9 53	7.1	0 59 46.1	45.9	+ 0.2	
38	- 0 19	8.8	- 0 6	4.6	0 49 49.8	49.4	+ 0.4	
39	+ 5 7	7.9	+ 5 18	5.9	0 55 14.9	12.1	+ 2.8	
40	....	...	6 43	6.3	0 56	36.7	...	
41	6 10	7.8	....	...	0 56 17.8	....	...
42	4 29	8.0	4 41	5.8	0 54 37.0	35.2	+ 1.8	
43	7 29	7.5	7 49	6.5	0 57 36.5	42.5	- 6.0	
44	6 33	7.7	6 48	6.3	0 56 40.7	41.7	- 1.0	
45	+ 4 25	+ 8.0	+ 4 38	- 5.7	+ 0 54 33.0	32.3	+ 0.7	

A.R. ^{h.} 2 ^{m.} 9 to ^{h.} 3 ^{m.} 47.

Dec. +0 50 to i 6.

Number of the Star.	Magnitude.	ZONE 153.					ZONE 155.					MEAN RIGHT ASCENSION. 1860.0					Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 153.				Zone 155.
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.		s.
46	.....	.....	.....	.....	.....	.....	2	35	0.1	4.0	0.05	+0.78	2	35	.....	0.83	.....
47	11-12	2	35	32.8	36.7	32.75	+2.25	35	34.3	38.2	34.25	0.78	35	35.00	35.03	-0.03	.....
48	12-13	36	57.6	61.5	57.55	2.24	.....	36	59.1	63.2	59.15	0.78	36	59.79	59.93	-0.14	.....
49	10-11	37	17.0	21.0	17.00	2.23	.....	37	18.5	22.3	18.40	0.79	37	19.23	19.19	+0.04	.....
50	10-11	38	7.9	11.8	7.85	2.22	.....	38	9.6	13.6	9.60	0.77	38	10.07	10.37	-0.30	.....
51	10-11	38	16.9	20.7	16.80	2.23	.....	38	18.1	22.1	18.10	0.80	38	19.03	18.90	+0.13	.....
52	11-12	38	57.2	61.1	57.15	2.22	.....	38	59.0	62.9	58.95	0.79	38	59.37	59.74	-0.37	.....
53	12-13	40	3.2	.....	3.20	2.21	.....	40	5.0	8.8	4.90	0.79	40	5.41	5.69	-0.28	.....
54	11-12	40	6.3	10.3	6.30	2.21	.....	40	7.9	11.8	7.85	0.79	40	8.51	8.64	-0.13	.....
55	11	41	16.5	20.6	16.55	2.20	.....	41	18.0	22.0	18.00	0.78	41	18.75	18.78	-0.03	.....
56	8	42	21.3	.....	21.30	2.18	.....	.....	.....	.....	.....	.....	42	23.48	.....	.....	.....
57	13	43	17.4	21.6	17.50	2.18	.....	43	19.0	22.9	18.95	0.77	43	19.68	19.72	-0.04	.....
58	13	43	31.3	35.0	31.15	2.17	.....	43	33.1	37.1	33.10	0.77	43	33.32	33.87	-0.55	.....
59	13	43	43.1	47.1	43.10	2.17	.....	43	.....	48.8	44.80	0.77	43	45.27	45.57	-0.30	.....
60	13-14	44	41.4	45.2	41.30	2.16	.....	44	43.3	47.3	43.30	0.77	44	43.46	44.07	-0.61	.....
61	12	45	2.6	6.5	2.55	2.16	.....	45	4.2	8.0	4.10	0.78	45	4.71	4.88	-0.17	.....
62	13	45	29.0	33.0	29.00	2.15	.....	45	30.8	34.8	30.80	0.77	45	31.15	31.57	-0.42	.....
63	12	46	11.4	15.5	11.45	2.15	.....	46	13.1	17.0	13.05	0.76	46	13.60	13.81	-0.21	.....
64	12	46	25.3	29.2	25.25	2.14	.....	46	27.0	31.0	27.00	0.75	46	27.39	27.75	-0.36	.....
65	12	46	48.4	.....	48.40	2.13	.....	.....	.....	.....	.....	.....	46	50.53	.....	.....	.....
66	12	46	53.1	56.9	53.00	2.13	.....	46	54.6	58.6	54.60	0.74	46	55.13	55.34	-0.21	.....
67	13-14	47	50.9	54.9	50.90	2.13	.....	47	52.9	56.8	52.85	0.76	47	53.03	53.61	-0.58	.....
68	10-12	48	28.2	32.0	28.10	2.12	.....	48	29.7	33.9	29.80	0.74	48	30.22	30.54	-0.32	.....
69	10-12	49	48.0	52.0	48.00	2.11	.....	49	49.3	53.3	49.30	0.75	49	50.11	50.05	+0.06	.....
70	12	50	22.0	26.0	22.00	2.11	.....	50	23.6	27.7	23.65	0.76	50	24.11	24.41	-0.30	.....
71	13	50	41.6	45.3	41.45	2.09	.....	50	43.1	47.2	43.15	0.73	50	43.54	43.88	-0.34	.....
72	12	51	31.1	35.0	31.05	2.09	.....	51	32.7	.....	32.70	0.73	51	33.14	33.43	-0.29	.....
73	12	51	.....	39.0	35.00	2.09	.....	51	.....	40.5	36.50	0.74	51	37.09	37.24	-0.15	.....
74	10-11	51	50.9	54.9	50.90	2.09	.....	51	52.2	56.3	52.25	0.74	51	52.99	52.99	0.00	.....
75	12	52	.....	62.4	58.40	2.07	.....	53	0.0	4.0	0.00	0.73	53	0.47	0.73	-0.26	.....
76	10	53	4.9	8.9	4.90	2.07	.....	53	6.3	10.3	6.30	0.72	53	6.97	7.02	-0.05	.....
77	9-11	53	49.3	53.4	49.35	2.07	.....	53	50.7	54.7	50.70	0.75	53	51.42	51.45	-0.03	.....
78	12-13	54	.....	16.8	12.80	2.06	.....	.....	.....	.....	.....	.....	54	14.86	.....	.....	.....
79	12-13	54	56.1	60.2	56.15	2.06	.....	54	57.8	61.7	57.75	0.74	54	58.21	58.49	-0.28	.....
80	11-12	55	17.3	21.1	17.20	2.05	.....	55	18.9	23.1	19.00	0.74	55	19.25	19.74	-0.49	.....
81	8-11	.....	.....	.....	.....	.....	.....	56	0.8	4.5	0.65	0.72	56	.....	1.37	.....	.....
82	8-11	56	13.4	17.5	13.45	2.04	.....	56	14.8	18.7	14.75	0.73	56	15.49	15.48	+0.01	.....
83	11-12	57	1.8	5.8	1.80	2.03	.....	57	3.2	7.2	3.20	0.74	57	3.83	3.94	-0.11	.....
84	12	58	8.5	12.3	8.40	2.02	.....	58	10.0	13.9	9.95	0.71	58	10.42	10.66	-0.24	.....
85	12	58	9.7	13.3	9.50	2.02	.....	58	11.1	15.0	11.05	0.71	58	11.52	11.76	-0.24	.....
86	12-13	58	30.0	.....	30.00	2.01	.....	58	31.7	35.6	31.65	0.71	58	32.01	32.36	-0.35	.....
87	12-13	58	33.6	37.4	33.50	2.01	.....	58	35.1	39.0	35.05	0.70	58	35.51	35.75	-0.24	.....
88	12-13	59	32.4	36.3	32.35	2.00	.....	59	33.9	.....	33.90	0.72	59	34.35	34.62	-0.27	.....
89	12-13	2	59	35.0	39.0	35.00	2.00	2	59	36.5	36.50	0.70	2	59	37.00	37.20	-0.20
90	7-9	3	0	24.8	28.8	24.80	+1.99	3	0	26.3	30.2	26.25	+0.69	3	0	26.79	26.94	-0.15

A.R. ^{h.} 9 ^{m.} 9 to ^{h.} 3 ^{m.} 47.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 153.	d.	Zone 155.	d.	Zone 153.	Zone 155.		
46	...	...	+ 2 22	- 5.1	+ 0 52	16.9	...	
47	+ 1 59	+ 8.4	2 11	5.0	0 52 7.4	6.0	+ 1.4	
48	1 0	8.6	1 16	4.8	0 51 8.6	11.2	- 2.6	
49	4 39	8.0	4 52	5.8	0 54 47.0	46.2	+ 0.8	Telescope unsteady, zone 153.
50	1 11	8.5	1 25	4.7	0 51 19.5	20.3	- 0.8	
51	7 25	7.5	7 50	6.5	0 57 32.5	43.5	-11.0	Zone probably erroneous 10".
52	6 29	7.6	6 40	6.2	0 56 36.6	33.8	+ 2.8	
53	6 10	7.5	6 21	6.1	0 56 17.5	14.9	+ 2.6	
54	7 58	7.3	8 10	6.5	0 58 5.3	3.5	+ 1.8	
55	+ 7 18	7.5	7 30	6.4	0 57 25.5	23.6	+ 1.9	
56	- 0 41	8.8	....	...	0 49 27.8	....	...
57	+ 5 28	7.8	5 43	5.9	0 55 35.8	37.1	- 1.3	
58	5 4	7.8	5 20	5.8	0 55 11.8	14.2	- 2.4	
59	4 51	7.8	5 6	5.7	0 54 58.8	60.3	- 1.5	
60	6 8	7.6	6 22	6.0	0 56 15.6	16.0	- 0.4	Stars forming a right-angled triangle.
61	10 48	6.9	10 54	7.2	1 0 54.9	46.8	+ 8.1	Zone (a) probably erroneous 10".
62	6 39	7.5	6 53	6.2	0 56 46.5	46.8	- 0.3	
63	7 10	7.4	7 22	6.3	0 57 17.4	15.7	+ 1.7	
64	3 0	8.1	3 14	5.2	0 53 8.1	8.8	- 0.7	
65	1 31	8.4	....	...	0 51 39.4	....	...
66	2 12	8.3	2 31	5.0	0 52 20.3	26.0	- 5.7	Source of error not found.
67	6 31	7.5	6 46	6.1	0 56 38.5	39.9	- 1.4	
68	4 15	7.9	4 28	5.5	0 54 22.9	22.5	+ 0.4	
69	5 58	7.6	6 10	5.9	0 56 5.6	4.1	+ 1.5	
70	10 0	6.9	10 20	7.0	1 0 6.9	13.0	- 6.1	Zone (b) probably wrong.
71	3 ..	...	4 8	5.4	0 54	2.6	...	
72	3 43	7.9	3 57	5.4	0 53 50.9	51.6	- 0.7	
73	6 0	7.6	6 15	5.9	0 56 7.6	9.1	- 1.5	
74	6 49	7.4	7 5	6.1	0 56 56.4	58.9	- 2.5	
75	3 40	7.9	3 52	5.4	0 53 47.9	46.6	+ 1.3	
76	1 28	8.3	1 39	4.8	0 51 36.3	34.2	+ 2.1	
77	10 16	6.8	10 31	7.0	1 0 22.8	24.0	- 1.2	
78	0 11	8.5	....	...	0 50 19.5	....	...
79	8 28	7.1	8 42	6.5	0 58 35.1	35.5	- 0.4	
80	7 ..	...	8 1	6.3	0 57	54.7	...	
81	....	...	4 4	5.3	0 53	58.7	...	
82	7 29	7.3	7 43	6.3	0 57 36.3	36.7	- 0.4	
83	10 23	6.8	10 37	7.0	1 0 29.8	30.0	- 0.2	
84	4 4	7.8	4 16	5.4	0 54 11.8	10.6	+ 1.2	
85	4 33	7.8	4 45	5.5	0 54 40.8	39.5	+ 1.3	
86	2 53	8.0	3 7	5.1	0 53 1.0	1.9	- 0.9	
87	2 41	8.1	2 58	5.1	0 52 49.1	52.9	- 3.8	
88	6 11	7.4	6 25	5.8	0 56 18.4	19.2	- 0.8	
89	1 29	8.3	1 38	4.7	0 51 37.3	33.3	+ 4.0	
90	+ 1 49	+ 8.2	+ 1 58	- 4.8	+ 0 51 57.2	53.2	+ 4.0	

A.R. $\begin{smallmatrix} h. & m. \\ 2 & 9 \end{smallmatrix}$ to $\begin{smallmatrix} h. & m. \\ 3 & 47 \end{smallmatrix}$.Dec. $\begin{smallmatrix} + & 5 & 50 \\ 0 & 50 & 0 \end{smallmatrix}$ to $\begin{smallmatrix} + & 5 & 50 \\ 0 & 50 & 0 \end{smallmatrix}$.

Number of the Star.	Magnitude.	ZONE 153.					ZONE 155.					MEAN RIGHT ASCENSION 1860.0				Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 153.	Zone 155.					
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.			
91	12	.....	.....	.....	.....	3 1 17.1	21.2	17.15	+0.70	3 1 17.90	.....	.....	.....
92	12	3 1 24.2	28.1	24.15	+1.98	1 25.7	29.7	25.70	0.70	1 26.15	26.40	-0.25	-0.25			
93	10-11	2 5.3	9.3	5.30	1.97	2 6.6	10.7	6.65	0.70	2 7.27	7.35	-0.08	-0.08			
94	8-9	2 36.0	40.0	36.00	1.97	2 37.5	41.4	37.45	0.71	2 37.97	38.16	-0.19	-0.19			
95	12-13	3 0.8	.....	0.80	1.97	3 2.3	.....	2.30	0.70	3 2.77	3.00	-0.23	-0.23	
96	12	3 4.9	8.5	4.70	1.96	3 6.0	10.1	6.05	0.70	3 6.66	6.75	-0.09	-0.09			
97	13-14	4 5.6	9.6	5.60	1.96	4 7.1	11.1	7.10	0.70	4 7.56	7.80	-0.24	-0.24			
98	12	4 24.3	28.1	24.20	1.95	4 25.7	29.6	25.65	0.68	4 26.15	26.33	-0.18	-0.18			
99	12-13	4 52.3	56.5	52.40	1.94	4 54.1	58.0	54.05	0.68	4 54.34	54.73	-0.39	-0.39			
100	12	5 26.7	.....	26.70	1.93	5 27.9	31.8	27.85	0.71	5 28.63	28.56	+0.07	+0.07		
101	12	5 35.7	39.6	35.65	1.94	5 37.2	41.1	37.15	0.69	5 37.59	37.84	-0.25	-0.25			
102	10-12	5 57.2	61.2	57.20	1.93	5 58.8	62.7	58.75	0.67	5 59.13	59.42	-0.29	-0.29			
103	8-9	6 12.1	16.0	12.05	1.93	6 13.5	17.5	13.50	0.69	6 13.98	14.19	-0.21	-0.21			
104	15	6 53.3	.....	53.30	1.93	.....	.....	.....	.....	6 55.23	.....	.....	.....
105	11-12	8 14.4	18.4	14.40	1.92	8 15.8	19.8	15.80	0.70	8 16.32	16.50	-0.18	-0.18			
106	11-12	8 40.1	44.1	40.10	1.90	8 41.3	45.4	41.35	0.67	8 42.00	42.02	-0.02	-0.02			
107	12	9 9.1	13.1	9.10	1.91	9 10.2	14.4	10.30	0.70	9 11.01	11.00	+0.01	+0.01			
108	12	9 9.7	13.7	9.70	1.91	9 10.9	15.0	10.95	0.69	9 11.61	11.64	-0.03	-0.03			
109	12-13	9 29.8	33.7	29.75	1.90	9 31.2	34.9	31.05	0.68	9 31.65	31.73	-0.08	-0.08			
110	8-10	9 46.7	50.7	46.70	1.90	9 47.9	51.8	47.85	0.68	9 48.60	48.53	+0.07	+0.07			
111	9-10	10 0.4	4.3	0.35	1.89	10 1.8	5.7	1.75	0.67	10 2.24	3.42	-0.18	-0.18			
112	13	10 38.4	42.3	38.35	1.89	.....	.....	.....	.....	10 36.24	.....	.....	.....
113	13	10 46.4	50.1	46.25	1.88	.....	.....	.....	.....	10 48.13	.....	.....	.....
114	12-13	11 9.7	13.5	9.60	1.88	11 11.1	15.0	11.05	0.67	11 11.48	11.72	-0.24	-0.24			
115	12	12 13.8	17.6	13.70	1.87	12 15.0	19.0	15.00	0.67	12 15.57	15.67	-0.10	-0.10			
116	12	12 19.9	23.8	19.85	1.88	12 21.2	25.2	21.20	0.69	12 21.73	21.89	-0.16	-0.16			
117	7	12 46.9	50.8	46.85	1.87	12 48.1	52.0	48.05	0.69	12 48.72	48.74	-0.02	-0.02			
118	12	14 4.2	0.20	1.86		14 1.6	5.6	1.60	0.68	14 2.06	2.28	-0.22	-0.22			
119	11	14 10.2	14.2	10.20	1.86	14 11.5	15.6	11.55	0.68	14 12.06	12.23	-0.17	-0.17			
120	12	14 26.2	30.2	26.20	1.85	14 27.7	31.5	27.60	0.67	14 28.05	28.27	-0.22	-0.22			
121	13	15 18.0	22.1	18.05	1.84	15 19.6	23.7	19.65	0.66	15 19.89	20.31	-0.42	-0.42			
122	12-13	15 29.0	33.0	29.00	1.84	15 30.5	34.4	30.45	0.67	15 30.84	31.12	-0.28	-0.28			
123	13-14	15 44.0	48.0	44.00	1.83	15 45.6	49.4	45.50	0.66	15 45.83	46.16	-0.33	-0.33			
124	12	16 47.5	51.2	47.35	1.83	16 48.8	52.8	48.80	0.67	16 49.18	49.47	-0.29	-0.29			
125	9-10	17 0.6	4.5	0.55	1.82	17 1.9	5.9	1.90	0.65	17 2.37	2.55	-0.18	-0.18			
126	11-12	17 18.7	22.7	18.70	1.82	17 19.9	23.9	19.90	0.64	17 20.52	20.54	-0.02	-0.02			
127	11	17 25.0	29.0	25.00	1.82	17 26.4	30.5	26.45	0.65	17 26.82	27.10	-0.28	-0.28			
128	.....	17 59.7	63.6	59.65	1.82	18 0.9	4.8	0.85	0.67	18 1.47	1.52	-0.05	-0.05		
129	11-12	18 58.8	62.8	58.80	1.80	19 0.1	4.1	0.10	0.64	19 0.60	0.74	-0.14	-0.14			
130	11	19 42.7	46.7	42.70	1.80	19 44.0	48.0	44.00	0.66	19 44.50	44.66	-0.16	-0.16			
131	.....	20 52.2	56.2	52.20	1.78	20 53.5	57.5	53.50	0.64	20 53.98	54.14	-0.16	-0.16		
132	13	21 29.0	32.9	28.95	1.78	21 30.3	34.2	30.25	0.65	21 30.73	30.90	-0.17	-0.17			
133	13	21 51.7	55.6	51.65	1.77	21 53.2	57.1	53.15	0.63	21 53.42	53.78	-0.36	-0.36			
134	13-14	22 18.5	22.9	18.70	1.77	.....	.....	.....	.....	22 20.47	.....	.....	.....
135	12-13	3 22 59.4	63.2	59.30	+1.77	3 23 0.5	4.3	0.40	+0.66	3 23 1.07	1.06	+0.01	+0.01			

A.R. $\overset{h.}{2} \overset{m.}{9}$ to $\overset{h.}{3} \overset{m.}{47}$ Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 153.	d.	Zone 155.	d.	Zone 153.	Zone 155.		
91	+ 3 43	+ 7.9	+ 4 2	- 5.3	+ 0 53 50.9	56.7	- 5.8	Zone (a) erroneous.
92	2 32	8.1	2 47	5.0	0 52 40.1	42.0	- 1.9	
93	4 49	7.6	5 3	5.5	0 54 56.6	57.5	- 0.9	
94	6 50	7.3	7 4	6.0	0 56 57.3	58.0	- 0.7	
95	5 1	7.6	5 12	5.6	0 55 8.6	6.4	+ 2.2	
96	5 12	7.6	5 22	5.6	0 55 19.6	16.4	+ 3.2	Nebulous by indirect vision.
97	5 19	7.6	5 33	5.6	0 55 26.6	27.4	+ 0.8	
98	1 30	8.2	1 44	4.7	0 51 38.2	39.3	- 1.1	
99	1 20	8.2	1 33	4.6	0 51 28.2	28.4	- 0.2	
100	9 58	6.7	10 9	6.8	1 0 4.7	2.2	+ 2.5	
101	3 12	7.9	3 36	5.2	0 53 19.9	30.8	- 10.9	Zone (a) erroneous.
102	0 20	8.4	0 32	4.4	0 50 28.4	27.6	+ 0.8	
103	4 14	7.7	4 28	5.4	0 54 21.7	22.6	- 0.9	Faint nebosity.
104	5 25	7.5	....	...	0 55 32.5	....	...
105	8 50	6.9	9 3	6.5	0 58 56.9	56.5	+ 0.4	
106	0 48	8.3	1 1	4.5	0 50 56.3	56.5	- 0.2	
107	9 1	6.9	9 18	6.5	0 59 7.9	11.5	- 3.6	
108	8 0	7.0	8 12	6.3	0 58 7.0	5.7	+ 1.3	
109	4 4	7.7	4 20	5.3	0 54 11.7	14.7	- 3.0	
110	4 17	7.7	4 28	5.3	0 54 24.7	22.7	+ 2.0	
111	3 24	7.8	....	...	0 53 31.8	....	...
112	+ 7 18	7.2	....	...	0 57 25.2	....	...
113	- 0 ...	...	....	...	0 50 ....	....	...
114	+ 4 42	7.6	4 55	4.3	0 54 49.6	50.7	- 1.1	
115	4 23	7.6	4 38	5.3	0 54 30.6	32.7	- 2.1	
116	10 9	6.7	10 19	6.8	1 0 15.7	12.2	+ 3.5	
117	8 18	7.0	8 28	6.3	0 58 25.0	21.7	+ 3.3	
118	7 29	7.2	7 38	6.1	0 57 36.2	31.9	+ 4.3	
119	9 15	6.8	9 27	6.5	0 59 21.8	20.5	+ 1.3	
120	5 50	7.3	6 1	5.5	0 55 57.3	55.5	+ 1.8	
121	3 42	7.7	3 56	5.1	0 53 49.7	50.9	- 1.2	
122	5 12	7.5	5 25	5.5	0 55 19.5	19.5	0.0	
123	3 0	7.8	....	...	0 53 7.8	....	...
124	6 48	7.2	7 4	5.9	0 56 55.2	58.1	- 2.9	
125	1 22	8.1	1 35	4.5	0 51 30.1	30.5	- 0.4	
126	0 55	8.3	1 8	4.4	0 51 0.3	3.6	- 3.3	
127	1 50	8.0	1 58	4.6	0 51 58.0	53.4	+ 4.6	
128	....	...	10 23	6.7	1 0	16.3	...
129	0 55	8.1	1 6	4.4	0 51 3.1	1.6	+ 1.5	
130	7 22	7.1	7 30	6.0	0 57 29.1	24.0	+ 5.1	
131	....	...	2 38	4.8	0 52	33.2	....
132	5 52	7.3	6 1	5.6	0 55 59.3	55.4	+ 3.9	
133	+ 1 19	8.1	1 33	4.5	0 51 27.1	28.5	- 1.4	
134	- 0 40	8.4	....	...	0 49 28.4	....	....
135	+ 10 11	+ 6.6	+ 10 22	- 6.6	+ 1 0 17.6	15.4	+ 2.2	

ZONE OBSERVATIONS.

A.R. 2^{h.} 9^{m.} to 3^{h.} 47^{m.}

Dec. + 0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 153.				ZONE 155.				MEAN RIGHT ASCENSION. 1860.0				Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 153.	Zone 155			
136	12-13	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	
137	.....	3 23 50.9	54.9	50.90	+1.76	3 23 52.3	56.2	52.25	+0.65	3 23 52.66	52.90	-0.24	
138	11-12	25 4.8	8.7	4.75	1.74	25 6.3	10.3	6.30	0.62	25 6.49	6.92	-0.43		
139	12	25 34.0	38.0	34.00	1.74	25 35.4	39.3	35.35	0.64	25 35.74	35.99	-0.25		
140	12	25 41.9	46.2	42.05	1.74	25 43.4	47.4	43.40	0.63	25 43.79	44.03	-0.24		
		25 43.1	47.1	43.10	1.74	25 44.2	48.3	44.25	0.63	25 44.84	44.88	-0.04		
141	12	26 32.9	37.0	32.95	1.73	26 34.2	38.1	34.15	0.61	26 34.68	34.76	-0.08		
142	11-12	26 39.9	43.7	39.80	1.73	26 41.3	45.2	41.25	0.63	26 41.53	41.88	-0.35		
143	9	27 8.3	12.3	8.30	1.72	27 9.4	13.5	9.45	0.62	27 10.02	10.07	-0.05		
144	10-11	27 35.9	39.7	35.80	1.72	.....	.....	.....	.....	27 37.52	.....	.....
145	12-13	28 14.0	18.0	14.00	1.72	28 15.3	19.4	15.35	0.62	28 15.72	15.97	-0.25		
146	12-13	28 16.5	20.3	16.40	1.72	28 17.8	21.8	17.80	0.64	28 18.12	18.44	-0.32		
147	11-12	28 47.0	50.8	46.90	1.71	28 48.4	52.3	48.35	0.61	28 48.61	48.96	-0.35		
148	11-12	29 42.6	46.8	42.70	1.69	29 44.0	48.0	44.00	0.60	29 44.39	44.60	-0.21		
149	11-12	29 50.2	54.1	50.15	1.69	.....	.....	.....	.....	29 51.84	.....	.....
150	9-10	29 59.2	63.1	59.15	1.69	30 0.3	4.2	0.25	0.60	30 0.84	0.85	-0.01		
151	11	30 42.3	46.5	42.40	1.69	.....	.....	.....	.....	30 44.09	.....	.....
152	10	31 3.4	7.4	3.40	1.69	31 4.6	8.4	4.50	0.63	31 5.09	5.13	-0.04		
153	12	31 29.7	33.6	29.65	1.68	31 30.9	34.8	30.85	0.59	31 31.33	31.44	-0.11		
154	12-13	31 47.6	51.2	47.40	1.67	31 48.6	52.5	48.55	0.58	31 49.07	49.13	-0.06		
155	12	31 52.9	56.8	52.85	1.68	31 53.7	57.7	53.70	0.61	31 54.53	54.31	+0.22		
156	11	32 0.1	4.1	0.10	1.67	32 1.4	5.5	1.45	0.58	32 1.77	2.03	-0.26		
157	11-12	32 49.7	53.9	49.80	1.66	32 51.3	55.0	51.15	0.58	32 51.46	51.73	-0.27		
158	11-12	33 3.9	7.8	3.85	1.66	33 4.8	9.0	4.90	0.59	33 5.51	5.49	+0.02		
159	13	34 23.1	27.4	23.25	1.65	.....	.....	.....	.....	34 24.90	.....	.....
160	11-12	34 26.3	30.3	26.30	1.66	34 27.5	31.3	27.40	0.62	34 27.96	28.02	-0.06		
161	12	35 11.8	15.8	11.80	1.65	35 13.1	17.0	13.05	0.61	35 13.45	13.66	-0.21		
162	12	35 45.1	49.0	45.05	1.64	35 46.1	50.2	46.15	0.61	35 46.69	46.76	-0.07		
163	13	37 24.2	28.2	24.20	1.62	37 25.6	29.4	25.50	0.58	37 25.82	26.08	-0.26		
164	13	37 32.6	36.3	32.45	1.62	37 33.7	37.7	33.70	0.58	37 34.07	34.28	-0.21		
165	13	37 46.6	50.6	46.60	1.62	37 47.9	51.8	47.85	0.61	37 48.22	48.46	-0.24		
166	13	38 12.3	16.0	12.15	1.62	.....	.....	.....	.....	38 13.77	.....	.....
167	11	38 49.8	53.8	49.80	1.61	38 50.9	.....	50.90	0.59	38 51.41	51.49	-0.08	
168	12-13	39 38.7	42.3	38.50	1.60	.....	.....	.....	.....	39 40.10	.....	.....
169	10-12	41 19.8	23.9	19.85	1.59	41 20.9	24.8	20.85	0.58	41 21.44	21.43	+0.01		
170	10-11	42 18.1	22.0	18.05	1.57	42 19.1	23.2	19.15	0.58	42 19.62	19.73	-0.11		
171	9	43 2.3	6.1	2.20	1.57	43 3.2	7.1	3.15	0.59	43 3.77	3.74	+0.03		
172	13	43 26.5	30.6	26.55	1.57	43 27.7	31.7	27.70	0.59	43 28.12	28.29	-0.17		
173	13	43 55.0	58.9	54.95	1.56	43 56.1	60.5	56.30	0.58	43 56.51	56.88	-0.37		
174	12-13	44 4.3	8.3	4.30	1.55	44 5.7	9.4	5.55	0.57	44 5.85	6.12	-0.27		
175	.....	.....	.....	.....	.....	45 31.5	35.6	31.55	0.55	45	32.10	.....	
176	12-13	46 5.1	.....	5.10	1.58	46 6.3	10.3	6.30	0.55	46 6.63	6.85	-0.22	
177	12-13	46 8.8	12.9	8.85	1.53	.....	.....	.....	.....	46 10.38	.....	.....
178	11	46 18.0	22.0	18.00	1.53	46 19.0	22.7	18.85	0.54	46 19.53	19.39	+0.14		
179	9-10	46 20.5	24.5	20.50	1.54	46 21.4	25.3	21.35	0.57	46 22.04	21.92	+0.12		
180	12	46 56.8	60.5	56.65	1.53	46 57.5	61.3	57.40	0.57	46 58.18	57.97	+0.21		
181	.....	3 47 7.6	11.5	7.55	+1.52	3 47 8.7	12.4	8.55	+0.53	3 47 9.07	9.08	-0.01	

A.R. ^{h.} 9 ^{m.} 9 to ^{h.} 3 ^{m.} 47.

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 153.	d.	Zone 155.	d.	Zone 153.	Zone 155.		
136	+ 9 26	+ 6.7	+ 9 30	- 6.4	+ 0 59 26.7	23.6	+ 3.1	
137	3 30	7.7	3 44	5.0	0 53 37.7	39.0	- 1.3	
138	7 0	7.1	7 11	5.8	0 57 7.1	5.2	+ 1.9	
139	6 29	7.1	6 45	5.7	0 56 36.1	39.3	- 3.2	
140	7 8	7.0	7 21	5.9	0 57 15.0	15.1	- 0.1	
141	0 15	8.2	0 27	4.1	0 50 23.2	22.9	+ 0.3	
142	6 11	7.2	6 25	5.6	0 56 18.2	19.4	- 1.2	
143	+ 5 12	7.3	5 24	5.4	0 55 19.3	18.6	+ 0.7	
144	- 0 19	8.3	....	...	0 49 49.3	....	...
145	+ 5 18	7.4	5 28	5.4	0 55 25.4	22.6	+ 2.8	
146	9 47	6.5	9 50	6.5	0 59 53.5	43.5	+10.0	Source of error not to be found.
147	4 2	7.5	4 16	5.1	0 54 9.5	10.9	- 1.4	
148	+ 1 55	7.9	2 6	4.5	0 52 2.9	1.5	+ 1.4	
149	- 0 26	8.3	....	...	0 49 42.3	....	...
150	+ 3 1	7.7	3 10	4.8	0 53 8.7	5.2	+ 3.5	
151	6 42	7.1	6 54	5.7	0 56 49.1	48.3	+ 0.8	
152	9 49	6.5	10 0	6.5	0 59 55.5	53.5	+ 2.0	
153	+ 1 24	8.0	+ 1 36	4.4	0 51 32.0	31.6	+ 0.4	
154	- 0 15	8.2	- 0 6	4.0	0 49 53.2	50.0	+ 3.2	
155	+ 5 55	7.2	+ 6 16	5.4	0 56 2.2	10.6	- 8.4	Zone (b) probably 10'' erroneous.
156	+ 0 10	8.1	+ 0 18	4.1	0 50 18.1	13.9	+ 4.2	
157	- 0 18	8.2	- 0 4	4.0	0 49 50.2	60.0	+ 9.8	Zone (b) probably 10'' erroneous.
158	+ 1 56	8.5	+ 2 11	4.5	0 52 4.5	6.5	- 2.0	
159	1 9	8.4	1 ..	...	0 51 17.4	....	...
160	10 15	6.4	10 22	6.6	1 0 21.4	15.4	+ 6.0	Declinations in zone (b) doubtful for the remainder of the zone.
161	9 6	6.6	9 16	6.3	0 59 12.6	9.7	+ 2.9	
162	8 10	6.8	8 17	6.0	0 58 16.8	11.0	+ 5.8	
163	3 18	7.6	3 36	4.5	0 53 25.6	31.5	- 5.9	Illumination defective.
164	2 50	7.6	3 6	4.7	0 52 57.6	61.3	- 3.7	
165	10 12	6.4	....	...	1 0 18.4	....	...
166	7 43	6.8	....	...	0 57 49.8	....	...
167	7 15	6.9	7 25	5.8	0 57 21.9	19.2	+ 2.7	
168	5 4	7.2	5 18	5.2	0 55 11.2	12.8	- 1.6	
169	6 48	6.9	6 58	5.6	0 56 54.9	52.4	+ 2.5	Cometary tail, n. f.?
170	6 24	6.9	6 36	5.5	0 56 30.9	30.5	+ 0.4	
171	9 38	6.5	9 46	6.3	0 59 44.5	39.7	+ 4.8	
172	8 12	6.7	....	...	0 58 18.7	....	...
173	7 0	6.8	7 14	5.7	0 57 6.8	8.3	- 1.5	
174	4 3	7.4	4 16	4.9	0 54 10.4	11.1	- 0.7	
175	....	...	1 45	4.1	0 51	40.9	...	
176	2 2	7.7	2 12	4.4	0 52 9.7	7.6	+ 2.1	
177	0 19	8.0	....	...	0 50 27.0	....	...
178	0 20	8.0	0 24	3.9	0 50 28.0	20.1	+ 7.9	Zone (a) somewhat erroneous.
179	8 5	6.7	8 16	5.9	0 58 11.7	10.1	+ 1.6	
180	8 23	8.6	8 37	6.0	0 58 29.6	31.0	- 1.4	
181	+ 0 51	+ 7.9	+ 1 3	- 4.1	+ 0 50 58.9	58.9	0.0	

A.R. ^{h.}3 ^{m.}46 to ^{h.}5 ^{m.}19.Dec. +^{h.}0 ^{m.}50 to ^{h.}1 ^{m.}0.

Number of the Star.	Magnitude.	ZONE 154.					ZONE 163.					MEAN RIGHT ASCENSION 1860.0					Difference.
		First Wire		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 154.		Zone 163.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.		
1	9-10	.....	.....	.....	.....	.....	3 46 22.1	26.0	22.05	-0.04	.....	3 46	22.01	.....		
2	12	3 46	60.8	56.80	+1.24	.....	46 58.0	62.0	58.00	0.04	.....	46 58.04	57.96	+0.08	
3	9	47 8.1	12.1	8.10	1.21	.....	47 9.2	13.1	9.15	0.03	.....	47 9.31	9.12	+0.19	
4	13	.....	.....	.....	.....	.....	47 50.6	54.7	50.65	0.03	.....	47	50.62	.....		
5	12	.....	.....	.....	.....	.....	48 31.4	35.1	31.25	0.02	.....	48	31.23	.....		
6	13	50 4.7	8.8	4.75	1.20	.....	.....	.....	.....	.....	.....	50 5.95	.....	.....	
7	12	50 24.8	28.7	24.75	1.21	.....	50 25.9	29.7	25.80	0.03	.....	50 25.96	25.77	+0.19	
8	12	51 55.2	59.1	55.15	1.20	.....	51 56.2	60.3	56.25	0.02	.....	51 56.35	56.23	+0.12	
9	11	.....	.....	.....	.....	.....	52 2.8	6.5	2.65	0.02	.....	52	2.63	.....		
10	12-13	52 16.7	20.7	16.70	1.19	.....	52 17.8	21.8	17.80	0.02	.....	52 17.89	17.78	+0.11	
11	11	52 47.5	51.3	47.40	1.20	.....	52 48.6	52.6	48.60	0.02	.....	52 48.60	48.58	+0.02	
12	13	53 2.9	6.9	2.90	1.20	.....	53 4.1	8.1	4.10	0.02	.....	53 4.10	4.08	+0.02	
13	13-14	53 36.5	40.6	36.55	1.18	.....	53 37.9	41.7	37.80	0.01	.....	53 37.73	37.79	-0.06	
14	13	54 6.3	10.0	6.15	1.17	.....	54 7.3	11.1	7.20	0.01	.....	54 7.32	7.19	+0.13	
15	12-13	54 41.3	45.0	41.15	1.19	.....	54 42.4	46.2	42.30	0.01	.....	54 42.34	42.29	+0.05	
16	9-10	56 35.3	39.1	35.10	1.17	.....	56 36.4	40.2	36.30	0.01	.....	56 36.27	36.29	-0.02	
17	10	56 37.1	40.9	37.00	1.18	.....	56 38.1	42.0	38.05	-0.01	.....	56 38.18	38.04	+0.14	
18	9	57 21.3	25.3	21.30	1.16	.....	57 22.5	26.4	22.45	0.00	.....	57 22.46	22.45	+0.01	
19	13	57 45.2	49.0	45.10	1.15	.....	.....	.....	.....	.....	.....	57 46.25	.....	.....	
20	12-13	58 24.8	28.8	24.80	1.16	.....	58 25.7	29.6	25.65	0.00	.....	58 25.96	25.65	+0.31	
21	12-13	58 47.4	51.3	47.35	1.14	.....	58 48.4	52.4	48.40	0.00	.....	58 48.49	48.40	+0.09	
22	12-13	3 59 6.8	10.6	6.70	1.14	.....	3 59 7.7	11.7	7.70	0.00	.....	3 59 7.84	7.70	+0.14	
23	12	4 0 2.1	6.2	2.15	1.13	.....	4 0 3.1	7.1	3.10	+0.01	.....	4 0 3.28	3.11	+0.17	
24	12	0 40.7	44.7	40.70	1.14	.....	0 41.4	.....	41.40	0.01	.....	0 41.84	41.41	+0.43
25	12	0 41.3	45.2	41.25	1.14	.....	0 42.2	46.2	42.20	0.01	.....	0 42.39	42.21	+0.18	
26	9-10	0 45.9	49.4	45.65	1.13	.....	0	50.4	46.40	0.01	.....	0 46.78	46.41	+0.37	
27	12	1 7.8	11.8	7.80	1.15	.....	1 8.8	12.7	8.75	0.00	.....	1 8.95	8.75	+0.20	
28	..	.....	.....	.....	.....	.....	1 22.9	26.8	22.85	0.01	.....	1	22.86	.....		
29	12	2 9.6	13.6	9.60	1.13	.....	2 10.7	14.6	10.65	0.01	.....	2 10.73	10.66	+0.07	
30	10	3 3.4	7.3	3.35	1.13	.....	3 4.4	8.3	4.35	0.01	.....	3 4.48	4.36	+0.12	
31	14	4 19.0	22.8	18.90	1.11	.....	.....	.....	.....	.....	.....	4 20.01	.....	.....	
32	..	4 56.0	59.5	55.75	1.11	.....	.....	.....	.....	.....	.....	4 56.86	.....	.....	
33	13	5 9.0	13.0	9.00	1.10	.....	5 9.9	13.9	9.90	0.02	.....	5 10.10	9.92	+0.18	
34	12-13	5 39.5	43.3	39.40	1.11	.....	5 40.6	44.3	40.45	0.02	.....	5 40.51	40.47	+0.04	
35	12	6 20.7	24.6	20.65	1.09	.....	6 21.4	25.5	21.45	0.02	.....	6 21.74	21.47	+0.27	
36	..	.....	.....	.....	.....	.....	6 42.5	46.4	42.45	0.01	.....	6	42.46	.....		
37	13	6 54.6	58.3	54.45	1.10	.....	6 55.7	59.4	55.55	0.01	.....	6 55.55	55.56	-0.01	
38	14	7 23.0	26.9	22.95	1.10	.....	7 24.3	28.1	24.20	0.02	.....	7 24.05	24.22	-0.17	
39	13	7	51.9	47.90	1.09	.....	7 48.9	.....	48.90	0.02	.....	7 48.99	48.92	+0.07
40	12	7 53.1	57.1	53.10	1.08	.....	7 54.1	58.0	54.05	0.02	.....	7 54.18	54.07	+0.11	
41	10-11	4 8 59.0	62.9	58.95	+1.09	.....	8 60.0	63.9	59.95	0.02	.....	8 60.04	59.97	+0.07	
42	12	.....	.....	.....	.....	.....	9 24.1	28.0	24.05	0.02	.....	9	24.07	.....		
43	12	.....	.....	.....	.....	.....	9 33.9	37.9	33.90	0.02	.....	9	33.92	.....		
44	12	.....	.....	.....	.....	.....	10 55.2	.....	55.20	0.01	.....	10	55.21	.....		
45	..	.....	.....	.....	.....	.....	4 10 57.8	61.8	57.80	+0.02	.....	4 10	57.82	.....		

A.R. ^{h.}3 ^{m.}46 to ^{h.}5 ^{m.}19.

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 154.	d.	Zone 163.	d.	Zone 154.	Zone 163.		
1	+ 8 0	+12.5	+ 8 18	- 7.5	+ 0 58 12.5	10.5	+ 2.0	
2	8 19	11.3	8 39	7.5	0 58 30.3	31.5	- 1.2	
3	0 45	13.1	1 3	5.9	0 50 58.1	57.1	+ 1.0	
4	....	....	5 16	6.7	0 55	9.3	...	
5	....	....	4 10	6.4	0 54	3.6	...	
6	3 59	12.9	....	...	0 54 11.9	....	...
7	6 58	12.7	7 16	6.9	0 57 10.7	9.1	+ 1.6	
8	8 58	12.5	9 15	7.2	0 59 10.5	7.8	+ 2.7	
9	6 49	12.7	....	...	0 57 1.7	....	...
10	3 48	13.0	4 8	6.1	0 54 1.0	1.9	- 0.9	
11	9 50	12.4	10 10	7.3	1 0 2.4	2.7	- 0.3	Reddish.
12	8 41	12.6	9 4	7.0	0 58 53.6	57.0	- 4.6	
13	4 36	13.0	4 55	6.1	0 54 49.0	48.9	+ 0.1	
14	0 0	13.4	0 21	5.1	0 50 13.4	15.9	- 2.5	
15	8 59	12.6	9 20	6.9	0 59 11.6	13.1	- 7.5	Between Nos. 15 and 16 a faint object; nebulous by indirect vision.
16	7 39	12.7	7 58	6.5	0 57 51.7	51.5	+ 0.2	
17	8 23	12.7	8 42	6.6	0 58 35.7	35.4	+ 0.3	
18	5 26	13.0	5 43	5.9	0 55 39.0	37.1	+ 1.9	
19	2 5	13.3	....	...	0 52 18.3	....	...
20	7 0	12.8	7 17	6.2	0 57 12.8	10.8	+ 2.0	
21	1 35	13.4	1 54	5.0	0 51 48.4	49.0	- 0.6	
22	3 47	13.2	4 6	5.4	0 54 0.8	0.6	+ 0.2	
23	0 16	13.5	0 34	4.6	0 50 29.5	29.4	+ 0.1	Windy.
24	5 49	13.0	6 9	5.7	0 56 2.0	3.3	- 1.3	
25	6 7	13.0	6 26	5.8	0 56 20.0	20.2	- 0.2	
26	0 31	13.5	....	...	0 50 44.5	....	...
27	8 13	12.8	8 33	6.2	0 58 25.8	26.8	- 1.0	
28	....	....	0 51	4.6	0 50	46.4	...	
29	4 35	13.2	4 55	5.4	0 54 48.2	49.6	- 1.4	
30	8 25	12.8	8 44	6.1	0 58 37.8	37.9	- 0.1	
31	4 4	13.3	....	...	0 54 17.3	....	...
32	6 ..	....	....	...	0 56 ....	....	...
33	1 52	13.5	2 11	4.5	0 52 5.5	6.5	- 1.0	
34	5 57	13.1	6 14	5.3	0 56 10.1	8.7	+ 1.4	
35	0 15	13.7	0 34	4.0	0 50 28.7	30.0	- 1.3	
36	....	....	10 29	6.1	1 0	22.9	...	
37	7 50	13.0	8 11	5.6	0 58 3.0	5.4	- 2.4	
38	6 39	13.1	7 2	5.3	0 56 52.1	56.7	- 4.6	
39	6 12	13.2	6 31	5.2	0 56 25.2	25.8	- 0.6	
40	8 9	13.5	8 26	4.5	0 53 22.5	21.5	+ 1.0	
41	3 7	13.5	3 24	4.4	0 53 20.5	19.6	+ 0.9	
42	9 10	12.9	9 26	5.6	0 59 22.9	20.4	+ 2.5	
43	10 35	12.8	10 45	5.9	1 0 47.8	39.1	+ 8.7	
44	+ 0 8	+13.8	0 24	3.6	0 50 21.8	20.4	+ 1.4	
45	....	....	+ 7 35	- 5.0	+ 0 57	30.0	...	

ZONE OBSERVATIONS.

A.R. ^{h.} 3 ^{m.} 46 to ^{h.} 5 ^{m.} 19.Dec. +^o 50 to ^o 6.

Number of the Star.	Magnitude.	ZONE 154.						ZONE 163.						MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.		Zone 154.		Zone 163.	
		h. m. s.	s.	s.	s.			h. m. s.	s.	s.	s.			h. m. s.	s.	s.	
46	11	.....	.....	.....	.....	.....	.....	4 11 15.5	19.5	15.50	+0.03	.....	.....	4 11 15.53	.....	.....	.....
47	12-13	4 12 10.3	14.6	10.45	+1.07	.....	.....	12 11.6	15.5	11.55	0.03	.....	.....	12 11.52	11.58	-0.06	.....
48	12	12 24.3	28.3	24.30	1.06	.....	.....	12 25.3	29.2	25.25	0.03	.....	.....	12 25.36	25.28	+0.08	.....
49	13	13 11.6	15.6	11.60	1.06	.....	.....	13 12.9	16.6	12.75	0.03	.....	.....	13 12.66	12.78	-0.12	.....
50	13	13 19.9	23.6	19.75	1.08	.....	.....	13 21.1	25.0	21.05	0.03	.....	.....	13 20.83	21.08	-0.25	.....
51	13	13 33.9	37.8	33.85	1.06	.....	.....	13 34.8	38.9	34.85	0.03	.....	.....	13 34.91	34.88	+0.03	.....
52	9	13 50.5	54.3	50.40	1.04	.....	.....	13 51.4	55.3	51.35	0.04	.....	.....	13 51.44	51.39	+0.05	.....
53	..	.....	.....	.....	.....	.....	.....	14 22.3	26.3	22.30	0.04	.....	.....	14 22.34	.....	.....	.....
54	12	14 50.6	54.3	50.45	1.03	.....	.....	14 51.3	55.3	51.30	0.04	.....	.....	14 51.48	51.34	+0.14	.....
55	13	14 57.0	61.0	57.00	1.04	.....	.....	14 58.0	61.7	57.85	0.04	.....	.....	14 58.04	57.89	+0.15	.....
56	..	.....	.....	.....	.....	.....	.....	16 1.1	5.1	1.10	0.04	.....	.....	16 1.14	.....	.....	.....
57	..	.....	.....	.....	.....	.....	.....	16 18.2	22.1	18.15	0.04	.....	.....	16 18.19	.....	.....	.....
58	11-12	17 5.1	9.1	5.10	1.03	.....	.....	17 6.1	9.9	6.00	0.05	.....	.....	17 6.13	6.05	+0.08	.....
59	12	17 48.3	52.4	48.35	1.03	.....	.....	17 49.3	.....	49.30	0.05	.....	.....	17 49.38	49.35	+0.03	.....
60	12	17 48.8	52.8	48.80	1.02	.....	.....	17 53.7	53.7	49.70	0.05	.....	.....	17 49.82	49.75	+0.07	.....
61	..	.....	.....	.....	.....	.....	.....	17 59.5	63.4	59.45	0.05	.....	.....	17 59.50	.....	.....	.....
62	11	18 8.3	12.3	8.30	1.04	.....	.....	18 9.3	13.2	9.25	0.05	.....	.....	18 9.34	9.30	+0.04	.....
63	11	18 40.7	44.8	40.75	1.02	.....	.....	18 41.8	45.7	41.75	0.05	.....	.....	18 41.77	41.80	-0.03	.....
64	..	.....	.....	.....	.....	.....	.....	19 7.0	11.1	7.05	0.05	.....	.....	19 7.10	.....	.....	.....
65	..	.....	.....	.....	.....	.....	.....	20 10.0	14.0	10.00	0.05	.....	.....	20 10.05	.....	.....	.....
66	..	.....	.....	.....	.....	.....	.....	20 44.3	47.9	44.10	0.06	.....	.....	20 44.16	.....	.....	.....
67	..	.....	.....	.....	.....	.....	.....	20 59.9	63.9	59.90	0.06	.....	.....	20 59.96	.....	.....	.....
68	..	.....	.....	.....	.....	.....	.....	22 1.0	5.0	1.00	0.06	.....	.....	22 1.06	.....	.....	.....
69	..	.....	.....	.....	.....	.....	.....	22 16.8	20.8	16.80	0.06	.....	.....	22 16.86	.....	.....	.....
70	..	.....	.....	.....	.....	.....	.....	22 22.3	26.4	22.35	0.06	.....	.....	22 22.41	.....	.....	.....
71	..	.....	.....	.....	.....	.....	.....	24 7.4	11.3	7.35	0.07	.....	.....	24 7.42	.....	.....	.....
72	..	.....	.....	.....	.....	.....	.....	24 19.4	23.4	19.40	0.07	.....	.....	24 19.47	.....	.....	.....
73	..	.....	.....	.....	.....	.....	.....	24 36.6	40.5	36.55	0.07	.....	.....	24 36.62	.....	.....	.....
74	..	25 9.1	13.0	9.05	1.00	.....	.....	25 10.1	13.8	9.95	0.07	.....	.....	25 10.05	10.02	+0.03	.....
75	..	26 0.0	4.0	0.00	0.99	.....	.....	26 1.0	5.0	1.00	0.07	.....	.....	26 0.99	1.07	-0.08	.....
76	12-13	26 40.1	44.2	40.15	0.98	.....	.....	26 41.1	45.0	41.05	0.07	.....	.....	26 41.13	41.12	+0.01	.....
77	12-13	26 41.9	45.8	41.85	0.97	.....	.....	26 46.7	46.7	42.70	0.07	.....	.....	26 42.82	42.77	+0.05	.....
78	13	27 30.6	34.6	30.60	0.98	.....	.....	27 31.5	35.3	31.40	0.07	.....	.....	27 31.58	31.47	+0.11	.....
79	13	29 12.9	16.8	12.85	0.96	.....	.....	29 13.6	17.7	13.65	0.08	.....	.....	29 13.81	13.73	+0.08	.....
80	13	29 14.7	18.8	14.75	0.96	.....	.....	.....	.....	.....	.....	.....	.....	29 15.71	.....	.....	.....
81	12	29 31.8	35.8	31.80	0.94	.....	.....	29 32.7	36.5	32.60	0.09	.....	.....	29 32.74	32.69	+0.05	.....
82	..	29 32.9	37.0	32.95	0.95	.....	.....	.....	.....	.....	.....	.....	.....	29 33.90	.....	.....	.....
83	..	29 32.9	37.0	32.95	0.95	.....	.....	29 45.7	49.6	45.65	0.08	.....	.....	29 45.73	.....	.....	.....
84	..	30 9.0	13.0	9.00	0.96	.....	.....	30 9.9	13.7	9.80	0.08	.....	.....	30 9.96	9.88	+0.08	.....
85	..	30 17.2	13.20	0.94	.....	.....	.....	30 17.9	13.90	0.09	.....	.....	.....	30 14.14	13.99	+0.15	.....
86	9-10	30 36.5	40.2	36.35	0.93	.....	.....	30 37.0	41.0	37.00	0.09	.....	.....	30 37.28	37.09	+0.19	.....
87	12	31 45.5	49.4	45.45	0.94	.....	.....	31 46.2	50.2	46.20	0.09	.....	.....	31 46.39	46.29	+0.10	.....
88	12	32 48.3	52.3	48.30	0.94	.....	.....	32 49.0	52.8	48.90	0.09	.....	.....	32 49.24	48.99	+0.25	.....
89	12	33 1.9	5.6	1.75	0.94	.....	.....	33 2.7	6.5	2.60	0.09	.....	.....	33 2.69	2.69	0.00	.....
90	12	4 33 6.0	10.2	6.10	+0.93	.....	.....	4 33 10.8	6.80	+0.09	.....	.....	.....	4 33 7.03	6.89	+0.14	.....

A.R. ^{h.}3 ^{m.}46 to ^{h.}5 ^{m.}19.Dec. +⁰50 to ⁰10.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 154.	d.	Zone 163.	d.	Zone 154.	Zone 163.		
46	+ 5 26	+13.3	+ 5 46	- 4.7	+ 0 55 39.3	41.3	- 2.0	
47	7 57	13.0	8 14	5.1	0 58 10.0	8.9	+ 1.1	
48	3 42	13.5	3 59	4.2	0 53 55.5	54.8	+ 0.7	
49	5 0	13.4	5 18	4.4	0 55 13.4	13.6	- 0.2	
50	10 11	13.0	10 29	5.5	1 0 24.0	23.5	+ 0.5	
51	6 49	13.3	7 9	4.7	0 57 2.3	4.3	- 2.0	
52	1 12	13.8	1 29	3.5	0 51 25.8	25.5	+ 0.3	
53	....	....	4 1	4.0	0 53	57.0	...	
54	0 50	13.4	1 9	3.3	0 51 3.4	5.7	- 2.3	
55	3 1	13.6	3 20	3.8	0 53 14.6	16.2	- 1.6	
56	....	....	5 52	4.2	0 55	47.8	...	
57	....	....	6 31	4.3	0 56	26.7	...	
58	5 20	13.5	5 39	4.1	0 55 33.5	34.9	- 1.4	
59	5 28	13.5	5 45	4.0	0 55 41.5	41.0	+ 0.5	
60	3 9	13.7	3 23	3.5	0 53 22.7	19.5	+ 3.2	
61	....	....	2 7	3.2	0 52	3.8	...	
62	8 20	13.2	8 38	4.6	0 58 33.2	33.4	- 0.2	Comp., n. f., 4".
63	2 42	13.7	3 3	3.4	0 52 55.7	59.6	- 3.9	
64	....	....	3 6	3.3	0 53	2.7	...	
65	....	....	7 3	4.1	0 56	58.9	...	
66	....	....	3 ..	...	0 53 ....	....	...
67	....	....	0 29	2.6	0 50	26.4	...	
68	....	....	7 46	4.0	0 57	42.0	...	
69	....	....	10 23	4.6	1 0	18.4	...	
70	....	....	9 0	4.3	0 58	55.7	...	
71	....	....	6 35	3.6	0 56	31.4	...	
72	....	....	6 37	3.6	0 56	33.4	...	
73	....	....	3 55	3.0	0 53	52.0	...	
74	9 29	13.3	9 43	4.2	0 59 42.3	38.8	+ 3.5	Elongated?
75	9 0	13.4	9 13	4.1	0 59 13.4	8.9	+ 4.5	Double?
76	9 9	13.4	9 26	4.0	0 59 22.4	22.0	+ 0.4	
77	6 42	13.6	6 58	3.5	0 56 55.6	54.5	+ 1.1	
78	9 12	13.4	9 30	3.9	0 59 25.4	26.1	- 0.7	
79	7 3	13.7	7 18	3.3	0 57 16.7	14.7	+ 2.0	
80	8 29	13.5	....	...	0 58 42.5	....	...	Comp., s. f., 8".
81	0 59	14.2	1 12	2.0	0 51 13.2	10.0	+ 3.2	
82	5 4	13.8	....	...	0 55 17.8	....	...
83	....	....	6 18	3.0	0 56	15.0	...	
84	7 18	13.7	7 34	3.3	0 57 31.7	30.7	+ 1.0	
85	4 22	13.9	4 38	2.7	0 54 35.9	35.3	+ 0.6	
86	0 29	14.3	0 47	1.9	0 50 43.3	45.1	- 1.8	
87	5 59	13.8	6 14	2.9	0 56 12.8	11.1	+ 1.7	Comp., n., 9".
88	10 26	13.5	10 42	3.7	1 0 39.5	38.3	+ 1.2	
89	8 20	13.6	8 38	3.2	0 58 33.6	34.8	- 1.2	
90	+ 7 31	+13.7	+ 7 46	- 3.1	+ 0 57 44.7	42.9	+ 1.8	

A.R. $\begin{smallmatrix} h. & m. \\ 3 & 46 \end{smallmatrix}$ to $\begin{smallmatrix} h. & m. \\ 5 & 19 \end{smallmatrix}$.Dec. $\begin{smallmatrix} +6 & 50 \\ 50 & \end{smallmatrix}$ to $\begin{smallmatrix} 1 & 0. \end{smallmatrix}$

Number of the Star.	Magnitude.	ZONE 154.				ZONE 163.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	λ .	First Wire.	Second Wire.	Mean red. to 1st Wire.	λ .	Zone 154.	Zone 163.	
		$\begin{smallmatrix} h. & m. & s. \\ 4 & 34 & 0.2 \end{smallmatrix}$	$\begin{smallmatrix} s. \\ 4.2 \end{smallmatrix}$	$\begin{smallmatrix} s. \\ 0.20 \end{smallmatrix}$	$\begin{smallmatrix} s. \\ +0.92 \end{smallmatrix}$	$\begin{smallmatrix} h. & m. & s. \\ 4 & 34 & 1.0 \end{smallmatrix}$	$\begin{smallmatrix} s. \\ 4.7 \end{smallmatrix}$	$\begin{smallmatrix} s. \\ 0.85 \end{smallmatrix}$	$\begin{smallmatrix} s. \\ +0.10 \end{smallmatrix}$	$\begin{smallmatrix} h. & m. & s. \\ 4 & 34 & 1.12 \end{smallmatrix}$	$\begin{smallmatrix} s. \\ 0.95 \end{smallmatrix}$	
91	12											
92	11											
93	11											
94	12											
95	10											
96	..											
97	..											
98	10											
99	10-11											
100	12											
101	12											
102	..											
103	12											
104	11-12											
105	12											
106	..											
107	13											
108	8											
109	12-13											
110	..											
111	..											
112	12											
113	..											
114	12											
115	12											
116	9											
117	..											
118	..											
119	10											
120	10											
121	12-13											
122	11											
123	12											
124	13											
125	12											
126	12-13											
127	13											
128	12											
129	10											
130	14											
131	12-13											
132	12-13											
133	..											
134	10-11											
135	14											

A.R. ^{h.}3 ^{m.}46 to ^{h.}5 ^{m.}19Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 154.	d.	Zone 163.	d.	Zone 154.	Zone 163.		
91	+ 4 10	+14.0	+ 4 28	- 2.3	+ 0 54 24.0	25.7	- 1.7	Zone (b) probably erroneous.
92	10 42	13.5	10 49	3.6	1 0 55.5	45.4	+10.1	
93	4 34	14.0	4 52	2.3	0 54 48.0	49.7	- 1.7	
94	7 21	13.8	7 39	2.8	0 57 34.8	36.2	- 1.4	
95	0 6	14.5	0 24	1.3	0 50 20.5	22.7	- 2.2	
96	11 0	3.2	1 0	56.8	...	
97	10 37	13.6	10 53	3.2	1 0 50.6	49.8	+ 0.8	
98	6 59	13.9	7 13	2.4	0 57 12.9	10.6	+ 2.3	
99	....	....	10 30	3.0	1 0	27.0	...
100	2 21	14.4	2 38	1.3	0 52 35.4	36.7	- 1.3	
101	2 20	14.4	2 38	1.3	0 52 34.4	36.7	- 2.3	
102	....	....	4 17	2.6	0 54	14.4	...
103	5 57	14.1	6 12	2.0	0 56 11.1	10.0	+ 1.1	
104	9 35	13.8	9 49	2.7	0 59 48.8	46.3	+ 2.5	
105	+ 5 0	14.2	5 12	1.7	0 55 14.2	10.3	+ 3.9	
106	6 23	1.9	0 56	21.1	...	Double.
107	- 0 28	14.7	0 49 46.7	Close double.
108	+ 4 5	14.3	4 21	1.5	0 54 19.3	19.5	- 0.2	
109	10 22	13.7	10 39	2.6	1 0 35.7	36.4	- 0.7	
110	10 19	13.8	10 34	2.6	1 0 32.8	31.4	+ 1.4	
111	3 53	14.3	....	...	0 54 7.3	....	...
112	0 6	14.7	0 20	0.4	0 50 20.7	19.6	+ 1.1	Zone (a) somewhat doubtful.
113	....	....	3 11	0.9	0 53	10.1	...
114	6 28	14.2	6 39	1.6	0 56 42.2	37.4	+ 4.8	
115	4 23	14.3	4 40	1.2	0 54 37.3	38.8	- 1.5	
116	3 29	14.4	3 45	1.0	0 53 43.4	44.0	- 0.6	
117	10 14	2.2	1 0	11.8	...	Zone (a) 10'' wrong.
118	....	....	3 14	0.7	0 53	13.3	...
119	9 39	13.9	9 44	2.0	0 59 52.9	42.0	+10.9	
120	5 0	14.3	5 14	1.0	0 55 14.3	13.0	+ 1.3	
121	6 22	14.2	6 39	1.3	0 56 36.2	37.7	- 1.5	
122	1 4	14.7	1 20	0.2	0 51 18.7	19.8	- 1.1	
123	7 21	14.1	7 37	1.4	0 57 35.1	35.6	- 0.5	
124	6 14	14.3	6 30	1.2	0 56 28.3	28.8	- 0.5	
125	6 56	14.2	7 9	1.3	0 57 10.2	7.7	+ 2.5	
126	2 57	14.5	3 11	0.4	0 53 11.5	10.6	+ 0.9	
127	4 39	14.4	4 54	0.6	0 54 53.4	53.4	0.0	
128	5 23	14.4	5 41	0.8	0 55 37.4	40.2	- 2.8	
129	7 0	14.3	7 14	1.1	0 57 14.3	12.9	+ 1.4	
130	3 30	14.6	....	...	0 53 44.6	....	...
131	5 26	14.4	5 39	0.7	0 55 40.4	38.3	+ 2.1	
132	10 20	14.0	10 38	1.6	1 0 34.0	36.4	- 2.4	Comp., n. f. 7''.
133	....	....	6 32	- 0.8	0 56	31.2	...
134	0 11	14.9	+ 0 26	+ 0.5	0 50 25.9	26.5	- 0.6	
135	+ 7 0	+14.4	....	...	+ 0 57 14.4	....	...

ZONE OBSERVATIONS.

A.R. ^{h.} 3 ^{m.} 46 to ^{h.} 5 ^{m.} 19.Dec. +^o 50 to ^o 6.

Number of the Star.	Magnitude.	ZONE 154.						ZONE 163.						MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 154.	Zone 163.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.				
136	12-13	4 56 21.0	25.2	21.10	+0.77	4 56 21.8	25.7	21.75	+0.16	4 56 21.87	21.91	-0.04				
137	....	56 47.0	51.3	47.15	0.76	56 47.7	51.6	47.65	0.16	56 47.91	47.81	+0.10			
138	10-11	57 8.7	12.6	8.65	0.76	57 9.2	13.2	9.20	0.16	57 9.41	9.36	+0.05				
139	10-11	57 19.2	23.2	19.20	0.76	57 19.9	23.8	19.85	0.16	57 19.96	20.01	-0.05				
140	11	57 46.3	50.0	46.15	0.76	57 46.9	56.8	46.85	0.16	57 46.91	47.01	-0.10				
141	6	58 9.4	13.3	9.35	0.77	58 10.1	14.1	10.10	0.16	58 10.12	10.26	-0.14				
142	13	58 31.6	35.5	31.55	0.74	.....	.....	.....	.....	58 32.29	.....	.....		
143	12-13	4 59 4.3	8.2	4.25	0.75	4 59 5.0	9.0	5.00	0.16	4 59 5.00	5.16	-0.16				
144	....	.....	.....	.....	.....	5 0 21.3	25.1	21.20	0.17	5 0 21.37	.....	.....		
145	11	5 0 42.9	46.9	42.90	0.75	0 43.5	47.4	43.45	0.16	0 43.65	43.61	+0.04				
146	11	0 58.4	62.4	58.40	0.76	0 59.2	63.1	59.15	0.16	0 59.16	59.31	-0.15				
147	10	1 30.8	34.7	30.75	0.74	1 31.3	35.3	31.30	0.17	1 31.49	31.47	+0.02				
148	13	1 46.2	50.5	46.35	0.73	1 47.3	51.2	47.25	0.17	1 47.08	47.42	-0.34				
149	12-13	2 4.3	8.2	4.25	0.72	2 5.0	8.9	4.95	0.17	2 4.97	5.12	-0.15				
150	....	2 12.3	16.2	12.25	0.73	2 13.0	17.0	13.00	0.17	2 12.98	13.17	-0.19			
151	....	2 13.0	17.0	13.00	0.74	2 13.8	17.6	13.70	0.17	2 13.74	13.87	-0.13			
152	11	2 46.1	49.9	46.00	0.71	2 46.3	50.4	46.35	0.18	2 46.71	46.53	+0.18				
153	11	3 8.8	12.8	8.80	0.73	3 9.6	13.5	9.55	0.17	3 9.53	9.72	-0.19				
154	13	3 48.2	52.4	48.30	0.71	3 49.0	.....	49.00	0.18	3 49.01	49.18	-0.17			
155	12-13	3 56.0	52.00	0.71	3 52.7	56.7	52.70	0.18	3 52.71	52.88	-0.17					
156	12-13	4 0.7	4.7	0.70	0.71	4 1.2	5.3	1.25	0.18	4 1.41	1.43	-0.02				
157	13	4 25.6	29.4	25.50	0.71	4 26.0	.....	26.00	0.18	4 26.21	26.18	+0.03			
158	8	4 31.5	35.6	31.55	0.70	4 32.1	35.9	32.00	0.18	4 32.25	32.18	+0.07				
159	12-13	5 25.9	30.0	25.95	0.73	5 26.7	30.4	26.55	0.18	5 26.68	26.73	-0.05				
160	12-13	5 36.0	39.6	35.80	0.70	5 36.6	40.4	36.50	0.19	5 36.50	36.69	-0.19				
161	13	6 50.0	53.8	49.90	0.70	6 54.4	50.40	0.19	6 50.60	50.59	+0.01					
162	13	7 6.3	10.4	6.35	0.70	7 7.0	11.0	7.00	0.19	7 7.05	7.19	-0.14				
163	11	7 42.4	46.5	42.45	0.72	7 43.2	47.3	43.25	0.18	7 43.17	43.43	-0.26				
164	11	7 49.2	53.3	49.25	0.71	7 49.9	53.9	49.90	0.18	7 49.96	50.08	+0.12				
165	11-12	7 51.1	55.1	51.10	0.69	7 51.4	55.6	51.50	0.19	7 51.79	51.69	+0.10				
166	10	8 8.7	12.6	8.65	0.68	8 9.0	13.1	9.05	0.19	8 9.33	9.24	+0.09				
167	11-12	8 22.8	18.80	0.69	.....	.....	.....	.....	.....	8 19.49	.....	.....		
168	13	8 36.7	40.8	36.75	0.69	.....	.....	.....	.....	8 37.44	.....	.....		
169	....	.....	.....	.....	.....	8 53.3	57.2	53.25	0.19	8 53.44	.....	.....		
170	13-14	9 18.0	21.7	17.85	0.70	.....	.....	.....	.....	9 18.55	.....	.....		
171	....	.....	.....	.....	.....	9 52.2	.....	52.20	0.19	9 52.39	.....	.....		
172	13	9 55.9	59.6	55.75	0.69	9 56.5	60.4	56.45	0.19	9 56.44	56.64	-0.20				
173	13	10 1.1	5.0	1.10	0.67	10 5.7	1.70	0.20	10 1.77	1.90	-0.13					
174	12	10 49.2	53.1	49.15	0.67	10 49.5	53.6	49.55	0.20	10 49.82	49.75	+0.07				
175	11-12	11 5.7	9.9	5.80	0.68	11 6.4	10.5	6.45	0.20	11 6.48	6.65	-0.17				
176	12-13	11 34.1	37.9	34.00	0.69	11 34.7	38.5	34.60	0.20	11 34.69	34.80	-0.11				
177	12	11 52.5	56.4	52.45	0.67	11 53.0	57.1	53.05	0.20	11 53.12	53.25	-0.13				
178	10	12 12.0	15.8	11.90	0.68	12 12.3	16.3	12.30	0.20	12 12.58	12.50	+0.08				
179	....	.....	.....	.....	.....	12 24.2	28.2	24.20	0.20	12 24.40	.....	.....		
180	11-12	5 13 12.3	16.3	12.30	+0.65	5 13 12.8	16.7	12.75	+0.21	5 13 12.95	12.96	-0.01				

A.R. ^{h.}3 ^{m.}46 to ^{h.}5 ^{m.}19.Dec. +^o0 [']50 to ^o1 [']0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 154.	d.	Zone 163.	d.	Zone 154.	Zone 163.		
136	+ 3 59	+14.6	+ 4 14	- 0.1	+ 0 54 13.6	13.9	- 0.3	
137	2 18	14.8	2 33	+ 0.3	0 52 32.8	33.3	- 0.5	
138	3 49	14.7	4 5	0.0	0 54 3.7	5.0	- 1.3	
139	3 38	14.7	3 52	0.0	0 53 52.7	52.0	+ 0.7	
140	5 37	14.5	5 52	- 0.3	0 55 51.5	51.7	- 0.2	
141	8 40	14.3	8 56	- 0.9	0 58 54.3	55.1	- 0.8	
142	0 23	15.0	....	...	0 50 38.0	....	...	Distant comp., n.
143	4 10	14.7	4 24	+ 0.1	0 54 24.7	24.1	+ 0.6	
144	....	....	5 12	0.0	0 55	12.0	...	
145	6 40	14.5	6 56	- 0.3	0 56 54.5	55.7	- 1.2	
146	7 10	14.5	7 25	- 0.3	0 57 24.5	24.7	- 0.2	
147	5 31	14.6	5 46	0.0	0 55 45.6	46.0	- 0.4	
148	4 0	14.8	4 19	+ 0.4	0 54 14.8	19.4	- 4.6	
149	2 9	15.0	2 24	0.8	0 52 24.0	24.8	- 0.8	
150	4 41	14.8	4 59	+ 0.3	0 54 55.8	59.3	- 3.5	
151	+ 6 22	14.6	6 38	- 0.1	0 56 36.6	37.9	- 1.3	
152	- 0 9	15.2	0 6	+ 1.4	0 50 6.2	7.4	- 1.2	
153	+ 6 50	14.6	7 4	- 0.1	0 57 4.6	3.9	+ 0.7	
154	1 21	15.1	1 39	+ 1.1	0 51 36.1	40.1	- 4.0	
155	2 11	15.0	2 16	1.0	0 52 26.0	17.0	...	
156	0 12	15.2	0 32	1.4	0 50 27.2	33.4	- 6.2	
157	3 0	15.0	3 18	0.8	0 53 15.0	18.8	- 3.8	
158	1 31	15.1	1 46	+ 1.2	0 51 46.1	47.2	- 1.1	
159	9 34	14.4	9 49	- 0.4	0 59 48.4	48.6	- 0.2	Distant comp., f.
160	1 22	15.1	1 38	+ 1.3	0 51 37.1	39.3	- 2.2	
161	2 30	15.1	2 47	1.2	0 52 45.1	48.2	- 3.1	
162	4 21	14.9	4 37	+ 0.8	0 54 35.9	37.8	- 1.9	
163	10 30	14.4	10 44	- 0.4	1 0 44.4	43.6	+ 0.8	
164	8 19	14.5	8 33	+ 0.1	0 58 33.5	33.1	+ 0.4	
165	2 18	15.1	2 35	1.4	0 52 33.1	36.4	- 3.3	
166	0 48	15.3	....	...	0 51 3.3	....	...
167	2 58	15.2	....	...	0 53 13.2	....	...
168	4 0	15.0	....	...	0 54 15.0	....	...
169	....	....	4 8	1.1	0 54	9.1	...	
170	6 59	14.8	....	...	0 57 13.8	....	...
171	....	....	7 47	0.4	0 57	47.4	...	
172	6 31	14.8	6 48	0.7	0 56 45.8	48.7	- 2.9	
173	1 10	15.3	1 28	1.8	0 51 25.3	29.8	- 4.5	Zone (a) doubtful.
174	0 55	15.3	1 8	2.0	0 51 10.3	10.0	+ 0.3	
175	4 29	15.0	4 40	1.2	0 54 44.0	41.2	+ 2.8	
176	8 41	14.6	8 55	0.4	0 58 55.6	55.4	+ 0.2	
177	4 59	15.0	5 9	1.2	0 55 14.0	10.2	+ 3.8	
178	+ 8 9	14.7	8 21	0.5	0 58 23.7	21.5	+ 2.2	
179	....	....	+ 7 50	0.6	0 57	50.6	...	
180	- 0 20	+15.4	- 0 7	+ 2.4	+ 0 49 55.4	55.4	0.0	

ZONE OBSERVATIONS.

A.R. ^{h.}3 ^{m.}46 to ^{h.}5 ^{m.}19.Dec. +⁰50 to ¹0.

Number of the Star.	Magnitude.	ZONE 154.					ZONE 163.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 154.	Zone 163.				
181	11-12	h. 5 m. 13 s. 28.1	s. 32.3	s. 28.20	+0.66	h. 5 m. 13 s. 28.8	s. 32.6	s. 28.70	+0.20	h. 5 m. 13 s. 28.86	s. 28.90	-0.04			
182	11-12	13 39.3	43.1	39.20	0.65	13 39.6	43.7	39.65	0.21	13 39.85	39.86	-0.01			
183	11-12	13 54.4	58.0	54.20	0.65	13 54.9	58.8	54.85	0.21	13 54.85	55.06	-0.21			
184	11-12	14 9.7	13.7	9.70	0.65	.....	.....	.....	.....	14 10.35	.....	.....	
185	11	14 11.1	15.0	11.05	0.67	14 11.8	15.8	11.80	0.20	14 11.72	12.00	-0.28			
186	12	14 34.9	39.0	34.95	0.65	14 35.4	....	35.40	0.21	14 35.60	35.61	-0.01		
187	..	.....	.....	.....	.....	14 52.4	56.4	52.40	0.20	14	52.60	.....		
188	11	15 2.7	6.8	2.75	0.66	15 3.4	7.2	3.30	0.21	15 3.41	3.51	-0.10			
189	11	15 8.5	12.6	8.55	0.65	15 9.2	13.0	9.10	0.21	15 9.20	9.31	-0.11			
190	11	15 51.6	....	51.60	0.64	15 52.2	56.1	52.15	0.21	15 52.24	52.36	-0.12		
191	11	15 56.0	60.0	56.00	0.66	15	60.4	56.40	0.21	15 56.66	56.61	+0.05			
192	11	16 8.8	12.8	8.80	0.64	16 9.3	13.3	9.30	0.21	16 9.44	9.51	-0.07			
193	12	17 17.6	21.4	17.50	0.63	.....	.....	.....	.....	17 18.13	.....	.....	
194	12	.....	.....	.....	.....	17 59.0	63.0	59.00	0.22	17	59.22	.....		
195	..	.....	.....	.....	.....	18 3.9	....	3.90	0.22	18	4.12	.....		
196	..	.....	.....	.....	.....	18 7.8	11.7	7.75	0.22	18	7.97	.....		
197	12	18 53.1	57.0	53.05	0.64	18 53.6	57.6	53.60	0.22	18 53.69	53.82	-0.13			
198	10	5 19 2.8	6.9	2.85	+0.62	5 19 3.1	7.2	3.15	+0.22	5 19 3.47	3.37	+0.10			

A.R. ^{h.} 3 ^{m.} 46 to ^{h.} 5 ^{m.} 19.Dec. +^o 50 to ^o 6.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 154.	d.	Zone 163.	d.	Zone 154.	Zone 163.		
181	+ 5 20	+15.0	+ 5 33	+ 1.2	+ 0 55 35.0	34.2	+ 0.8	
182	2 6	15.3	2 19	1.9	0 52 21.3	20.9	+ 0.4	
183	3 20	15.2	3 31	1.7	0 53 35.2	32.7	+ 2.5	
184	5 7	15.0	....	...	0 55 22.0	....	...
185	9 30	14.6	9 42	0.4	0 59 44.6	42.4	+ 2.2	
186	4 50	15.1	5 8	1.4	0 55 5.1	9.4	- 4.3	
187	....	....	10 8	0.4	1 0	8.4	...	
188	7 11	14.9	7 27	1.0	0 57 25.9	28.0	- 2.1	
189	5 40	15.0	5 55	1.3	0 55 55.0	56.3	- 1.3	
190	4 59	15.1	5 11	1.5	0 55 14.1	12.5	+ 1.6	
191	10 0	14.6	10 11	0.5	1 0 14.6	11.5	+ 3.1	
192	4 58	15.1	5 12	1.6	0 55 13.1	13.6	- 0.5	
193	5 38	15.0	5 52	1.5	0 55 53.0	53.5	- 0.5	
194	8 40	14.8	8 54	0.9	0 58 54.8	54.9	- 0.1	
195	....	....	5 44	1.6	0 55	45.6	...	
196	....	....	7 58	1.2	0 57	59.2	...	
197	7 50	14.9	8 5	1.2	0 58 4.9	6.2	- 1.3	
198	+ 5 42	+15.1	+ 5 56	+ 1.7	+ 0 55 57.1	57.7	- 0.6	

ZONE OBSERVATIONS.

A.R. ^{h.} 3 ^{m.} 29 to ^{h.} 5 ^{m.} 32.Dec. [°] +0 ['] 40 to [°] 0 ['] 50.

Number of the Star.	Magnitude.	ZONE 157.					ZONE 158.					MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.	Zone 158.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.
1	9	3 29 52.4	56.3	52.35	-0.45		3 29 52.3	56.2	52.25	-0.33		3 29 51.90	51.92	-0.02
2	8-9	30 26.4	30.2	26.30	0.44		30 26.0	30.0	26.00	0.32		30 25.86	25.68	+0.18
3	10	30 35.2	39.2	35.20	0.44		30 35.1	39.1	35.10	0.32		30 34.76	34.78	-0.02
4	9-10	30 40.3	44.1	40.20	0.44		30 40.1	44.1	40.10	0.32		30 39.76	39.78	-0.02
5	10	31 49.4	53.6	49.50	0.45		31 49.4	53.4	49.40	0.32		31 49.05	49.06	-0.03
6	11	32 0.4	....	0.40	0.44		32 0.1	4.1	0.10	0.32		31 59.96	59.78	+0.18
7	..	....	....	....	....		32 2.4	6.1	2.25	0.32		32	1.93	....
8	10	32 7.0	11.1	7.05	0.44		32	10.7	6.70	0.32		32 6.61	6.38	+0.23
9	9-10	32 52.2	56.3	52.25	0.44		32 52.2	56.1	52.15	0.32		32 51.81	51.83	-0.02
10	11	33 6.8	10.6	6.70	0.44		33 6.6	10.6	6.60	0.31		33 6.26	6.29	-0.03
11	11-12	33 34.9	38.8	34.85	0.44		33	38.5	34.50	0.31		33 34.41	34.19	+0.22
12	11-12	34	12.6	8.60	0.43		34 8.4	12.4	8.40	0.31		34 8.17	8.09	+0.08
13	9-10	34 25.1	29.0	25.05	0.43		34 24.6	28.7	24.65	0.31		34 24.62	24.34	+0.28
14	9-10	34 30.9	34.8	30.85	0.43		34 30.7	34.6	30.65	0.31		34 30.42	30.34	+0.08
15	10	35 7.1	11.0	7.05	0.43		35 6.9	10.8	6.85	0.31		35 6.62	6.54	+0.08
16	10-11	35 29.8	33.8	29.80	0.44		35 29.7	33.7	29.70	0.31		35 29.36	29.39	-0.03
17	9	36 15.9	20.0	15.95	0.43		36 15.7	19.5	15.60	0.30		36 15.52	15.30	+0.22
18	10-11	36 53.2	57.3	53.25	0.43		36 53.0	57.0	53.00	0.30		36 52.82	52.70	+0.02
19	9-10	37 36.1	40.0	36.05	0.43		37 35.8	39.7	35.75	0.30		37 35.62	35.45	+0.17
20	11-12	38 3.5	....	3.50	0.43		38 3.5	7.3	3.40	0.30		38 3.07	3.10	-0.03
21	11-12	38 17.0	21.0	17.00	0.43		38 16.8	20.7	16.75	0.30		38 16.57	16.45	+0.12
22	11-12	39 22.7	26.9	22.80	0.43		39 22.6	26.5	22.55	0.30		39 22.37	22.25	+0.12
23	10-11	39 34.0	37.9	33.95	0.42		39 33.7	37.7	33.70	0.29		39 33.53	33.41	+0.12
24	10	40 2.3	6.1	2.20	0.43		40 2.0	6.0	2.00	0.30		40 1.77	1.70	+0.07
25	9-10	41 46.1	50.1	46.10	0.42		41 45.9	49.9	45.90	0.29		41 45.68	45.61	+0.07
26	10	41 53.0	56.9	52.95	0.42		41 53.0	56.8	52.90	0.29		41 52.53	52.61	-0.08
27	9-10	41 55.2	59.0	55.10	0.42		41 55.0	58.7	54.85	0.29		41 54.68	54.56	+0.12
28	10	42 3.8	....	3.80	0.42		....	....	....	....		42 3.38	....	....
29	10-11	42 38.8	42.9	38.85	0.42		42 38.5	42.6	38.55	0.29		42 38.43	38.26	+0.17
30	9-10	42 54.3	58.2	54.25	0.42		42 54.1	58.0	54.05	0.29		42 53.83	53.76	+0.07
31	9-10	43 17.5	21.3	17.40	0.41		43 17.2	21.2	17.20	0.28		43 16.99	16.92	+0.07
32	10-11	43 48.8	52.8	48.80	0.41		43 48.7	52.7	48.70	0.28		43 48.39	48.42	-0.03
33	8-9	45 3.3	7.3	3.30	0.42		45 3.1	7.1	3.10	0.28		45 2.88	2.82	+0.06
34	9	45 34.2	38.2	34.20	0.41		45 33.9	37.8	33.85	0.28		45 33.79	33.57	+0.22
35	12	45 53.1	57.3	53.20	0.41		....	....	....	....		45 52.79	....	....
36	10-12	46 3.8	7.7	3.75	0.41		46 3.4	7.3	3.35	0.28		46 3.34	3.07	+0.27
37	10	46	15.3	11.30	0.41		46 10.8	14.8	10.80	0.28		46 10.89	10.52	+0.37
38	11	46 51.6	55.5	51.55	0.41		....	....	....	....		46 51.14	....	....
39	10-11	47 16.3	20.2	16.25	0.41		47 16.1	20.2	16.15	0.28		47 15.84	15.87	-0.03
40	11	47 28.5	32.5	28.50	0.40		47 28.4	32.2	28.30	0.27		47 28.10	28.03	+0.07
41	10-11	48 7.5	11.8	7.65	0.40		48 7.3	11.3	7.30	0.27		48 7.25	7.03	+0.22
42	11	48 22.7	26.7	22.70	0.40		48 22.6	26.5	22.55	0.27		48 22.30	22.28	+0.02
43	10-11	48 46.1	50.1	46.10	0.39		....	....	....	....		48 45.71	....	....
44	10-12	49 17.4	....	17.40	0.40		3 49 17.3	21.1	17.20	-0.27		49 17.00	16.43	+0.07
45	11-12	3 49	23.4	19.40	-0.39		....	....	....	....		3 49 19.01	....	....

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
1	+ 9 53	-26.6	+ 9 46	-17.5	- 0 49 26.4	28.5	- 2.1	There is not any catalogue star in this zone until 4 ^h 18 ^m A.R.
2	- 0 7	25.1	- 0 14	16.0	0 39 27.9	30.0	- 2.1	
3	+ 3 56	25.7	+ 3 48	16.6	0 43 30.3	31.4	- 1.1	
4	4 25	25.7	4 18	16.6	0 43 59.3	61.4	- 2.1	
5	10 16	26.4	....	....	0 49 49.6	....	...
6	2 17	25.2	2 9	16.2	0 41 51.8	52.8	- 1.0	
7	....	....	10 30	17.3	0 50	12.7	...
8	8 8	26.0	8 3	17.0	0 47 42.0	46.0	- 4.0	
9	10 11	26.2	10 6	17.2	0 49 44.8	48.8	- 4.0	
10	1 40	25.0	1 33	15.9	0 41 15.0	17.1	- 2.1	
11	3 9	25.1	3 4	16.1	0 42 43.9	47.9	- 4.0	
12	+ 1 17	24.8	+ 1 8	15.8	0 40 52.2	52.2	0.0	
13	- 0 2	24.6	- 0 9	15.6	0 39 33.4	35.4	- 2.0	
14	+ 0 16	24.6	+ 0 11	15.6	0 39 51.4	55.4	- 4.0	
15	4 38	25.1	4 30	16.1	0 44 12.9	13.9	- 1.0	
16	9 45	25.8	9 40	16.8	0 49 19.2	23.2	- 4.0	
17	2 36	24.6	2 29	15.7	0 42 11.4	13.3	- 1.9	
18	2 21	24.5	2 11	15.6	0 41 56.5	55.4	+ 1.1	
19	2 36	24.4	2 30	15.5	0 42 11.6	14.5	- 2.9	
20	7 47	25.1	7 43	16.2	0 47 21.9	26.8	- 4.9	
21	1 55	24.2	1 48	15.4	0 41 30.8	32.6	- 1.8	
22	5 21	24.5	5 16	15.7	0 44 56.5	60.3	- 3.8	
23	1 9	23.9	1 4	15.1	0 40 45.1	48.9	- 3.8	
24	8 57	25.0	8 50	16.1	0 48 32.0	33.9	- 1.9	
25	5 21	24.2	5 15	15.4	0 44 56.8	59.6	- 2.8	
26	6 30	24.3	6 26	15.6	0 46 5.7	10.4	- 4.7	
27	8 38	24.6	8 33	15.9	0 48 13.4	17.1	- 3.7	
28	3 58	22.9	....	....	0 43 34.1	....	...
29	3 18	23.8	....	....	0 42 54.2	....	...
30	5 13	24.0	5 9	15.3	0 44 49.0	53.7	- 4.7	
31	1 20	23.4	1 11	14.7	0 40 56.6	56.3	+ 0.3	
32	6 0	24.0	5 54	15.3	0 45 36.0	38.7	- 2.7	
33	9 36	24.3	9 29	15.6	0 49 11.7	13.4	- 1.7	
34	3 3	23.3	2 55	14.6	0 42 39.7	40.4	- 0.7	
35	4 16	23.4	....	....	0 43 52.6	....	...
36	7 1	23.8	6 56	15.1	0 46 37.2	40.9	- 3.7	
37	10 9	24.2	10 3	15.6	0 49 44.8	47.4	- 2.6	
38	8 28	23.9	....	....	0 48 4.1	....	...
39	10 37	24.1	10 30	15.5	0 50 12.9	14.5	- 1.6	
40	2 30	22.9	2 17	14.3	0 42 7.1	2.7	+ 4.4	
41	7 16	23.5	7 9	14.9	0 46 52.5	54.1	- 1.6	
42	8 17	23.6	8 17	15.0	0 47 53.4	62.0	+ 1.4	
43	0 6	22.4	....	....	0 39 43.6	....	...
44	8 12	23.4	+ 8 8	-14.9	0 47 48.6	53.1	- 4.5	
45	+ 2 5	-22.6	....	....	- 0 41 42.4	....	...

A.R. ^{h.} 3 ^{m.} 29 to ^{h.} 5 ^{m.} 32.Dec. [°] +0 ['] 40 to [°] 0 ['] 50.

Number of the Star.	Magnitude.	ZONE 157.				ZONE 158.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.	Zone 158.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
46	11	3 49	56.0	52.00	-0.39	.....	.....	.....	.....	3 49	51.61	.....
47	11	50 26.1	30.0	26.05	0.40	.....	.....	.....	.....	50	25.65	.....
48	11-12	51 29.8	33.6	29.70	0.40	3 51 29.1	33.2	29.15	-0.26	51	29.30	28.89 +0.41
49	9-10	51 54.6	58.5	54.55	0.39	51 54.2	58.1	54.15	0.26	51	54.16	53.89 +0.27
50	.....	52 0.0	4.2	0.10	0.39	51 59.7	63.5	59.60	0.26	51	59.71	59.34 +0.37
51	.....	52 20.8	.....	.....	0.39	.....	.....	.....	.....	52	20.41	.....
52	9-10	52	27.1	23.10	0.39	52 23.0	26.8	22.90	0.25	52	22.71	22.65 +0.06
53	9	52 37.3	41.3	37.30	0.39	52 37.1	41.1	37.10	0.25	52	36.91	36.85 +0.06
54	10	54 7.9	11.8	7.85	0.39	54 7.6	11.5	7.55	0.25	54	7.46	7.30 +0.16
55	11-12	55	9.8	5.80	0.39	55 5.4	9.6	5.50	0.24	55	5.41	5.26 +0.15
56	11-12	56 5.7	9.8	5.75	0.38	56 5.4	9.3	5.35	0.24	56	5.37	5.11 +0.26
57	11-12	57 5.3	9.4	5.35	0.38	57 5.4	9.1	5.25	0.24	57	4.97	5.01 -0.04
58	11-12	57 46.6	50.5	46.55	0.38	57 46.5	50.0	46.25	0.24	57	46.17	46.01 +0.16
59	11	58 29.7	33.8	29.75	0.37	58 29.3	33.4	29.35	0.23	58	29.38	29.12 +0.26
60	9	58 30.5	34.4	30.45	0.38	58 30.3	34.2	30.25	0.23	58	30.07	30.02 +0.05
61	10	58 51.9	55.9	51.90	0.38	58 51.7	55.9	51.80	0.24	58	51.52	51.56 -0.04
62	10	59 28.1	32.2	28.15	0.38	59 28.3	31.9	28.10	0.23	59	27.77	27.87 -0.10
63	9-10	59 34.7	38.7	34.70	0.37	59 34.5	38.7	34.60	0.22	59	34.33	34.38 -0.05
64	10	3 59 56.5	60.5	56.50	0.38	3 59 56.3	60.4	56.35	0.23	3 59	56.12	56.12 0.00
65	11-12	4 1	25.1	21.70	0.37	4 1 21.0	24.9	20.95	0.22	4 1	20.73	20.73 0.00
66	11	1 28.4	.....	28.40	0.37	1 28.4	32.2	28.30	0.22	1 28.03	28.08	-0.05
67	11	1 32.8	.....	32.80	0.37	.....	.....	.....	.....	1 32.43	.....	.....
68	10-11	1 57.6	61.8	57.70	0.37	1 57.0	61.3	57.15	0.21	1 57.33	56.94	+0.39
69	.....	2 16.8	20.7	16.75	0.37	2 16.3	20.5	16.40	0.22	2 16.38	16.18	+0.20
70	9-10	2 20.0	24.1	20.05	0.38	2 19.8	23.7	19.75	0.22	2 19.67	19.53	+0.14
71	10	2	40.5	36.50	0.37	2 36.3	40.2	36.25	0.21	2 36.13	36.04	+0.09
72	10	3 17.1	20.9	17.00	0.37	3 16.8	20.8	16.80	0.21	3 16.63	16.59	+0.04
73	10-11	3 37.4	41.2	37.30	0.37	3	41.0	37.00	0.22	3 36.93	36.78	+0.15
74	10-11	3 50.8	54.6	50.70	0.37	3 50.4	54.5	50.45	0.22	3 50.33	50.23	+0.10
75	9-10	4 19.0	23.0	19.00	0.37	4 18.8	22.9	18.85	0.22	4 18.63	18.63	0.00
76	10-11	4 35.0	38.9	34.95	0.36	4 34.9	38.9	34.90	0.21	4 34.59	34.69	-0.10
77	10	4 40.1	44.3	40.20	0.36	4 40.0	43.9	39.95	0.21	4 39.84	39.74	+0.10
78	11	4	49.0	45.00	0.37	4 45.0	48.6	44.80	0.21	4 44.63	44.59	+0.04
79	11	5 46.8	.....	46.80	0.36	5 46.5	50.7	46.60	0.21	5 46.44	46.39	+0.05
80	11	5 53.1	57.0	53.05	0.36	5 52.8	57.0	52.90	0.21	5 52.69	52.69	0.00
81	9-10	6 6.3	10.2	6.25	0.36	6 6.2	10.2	6.20	0.20	6 5.89	6.00	-0.11
82	10	6 7.8	11.6	7.70	0.36	6 7.6	11.4	7.50	0.21	6 7.34	7.29	+0.05
83	.....	.....	.....	.....	.....	6 21.9	25.7	21.80	0.21	6	21.59	.....
84	10	7 6.8	10.8	6.80	0.36	7 6.5	10.4	6.45	0.20	7 6.44	6.25	+0.19
85	9-10	7 12.1	15.8	11.95	0.36	7 11.8	15.6	11.70	0.21	7 11.59	11.49	+0.10
86	9-10	7 49.6	53.7	49.65	0.36	7 49.2	53.0	49.10	0.21	7 49.29	48.89	+0.40
87	9-10	7 52.6	56.4	52.50	0.36	7 52.1	56.2	52.15	0.20	7 52.14	51.95	+0.19
88	11-12	8 39.3	.....	39.30	0.36	8 39.0	42.4	38.70	0.20	8 38.94	38.50	+0.44
89	10	8 44.7	48.6	44.65	0.36	8 44.6	48.4	44.50	0.20	8 44.29	44.30	-0.01
90	10	4 8 53.3	57.7	53.50	-0.36	4 8 53.3	57.3	53.30	-0.20	4 8 53.14	53.10	+0.04

A.R. ^{h.}3 ^{m.}20 to ^{h.}5 ^{m.}31.Dec. +^o 40 to ^o 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
46	+ 4 "0	-22.8	' " " "	' " " "	+ 0 43 37.2	' " " "	' " " "	
47	8 0	23.3	' " " "	' " " "	0 47 36.7	' " " "	' " " "	
48	10 2	23.4	+ 9 56	-14.9	0 49 38.6	41.1	- 2.5	
49	2 40	22.3	2 32	13.8	0 42 17.7	18.2	- 0.5	
50	....	....	....	....	.....	....	....
51	....	....	....	....	.....	....	....
52	3 52	22.4	3 46	13.9	0 43 29.6	32.1	- 2.5	
53	2 7	22.1	2 3	13.4	0 41 44.9	49.6	- 4.7	Adjusted focus zone 157.
54	10 38	23.1	10 31	14.6	0 40 14.9	16.4	- 1.5	
55	5 34	22.2	5 27	13.8	0 45 11.8	13.2	- 1.4	
56	2 18	21.6	2 12	13.2	0 41 56.4	58.8	- 2.4	
57	8 42	22.3	8 36	14.0	0 48 19.7	22.0	- 2.3	
58	7 18	22.1	7 9	13.7	0 46 55.9	55.3	+ 0.6	
59	1 6	21.1	1 2	12.7	0 40 44.9	49.3	- 4.4	
60	6 2	21.8	5 54	13.4	0 45 40.2	40.6	- 0.4	
61	7 45	22.0	7 38	13.6	0 47 23.0	24.4	- 1.4	
62	7 51	21.9	7 46	13.5	0 47 29.1	32.5	- 3.4	
63	0 16	20.8	0 9	12.5	0 39 55.2	56.5	- 1.3	
64	5 50	21.5	5 42	13.2	0 45 28.5	28.8	- 0.3	
65	2 ..	....	....	....	.....	....	....
66	4 14	21.1	4 8	12.8	0 43 52.9	55.2	- 2.3	
67	7 29	21.5	....	....	0 47 7.5	....	....
68	0 38	20.5	0 30	12.2	0 40 17.5	17.8	- 0.3	
69	....	....	3 34	12.6	0 43	21.4	....
70	9 31	21.7	9 26	13.4	0 49 9.3	12.6	- 3.3	
71	2 28	20.7	2 21	12.4	0 42 7.3	8.6	- 1.3	
72	3 14	20.7	3 9	12.4	0 42 53.3	56.6	- 3.3	
73	8 40	21.4	8 36	13.2	0 48 18.6	22.8	- 4.2	
74	9 8	21.4	9 4	13.2	0 48 46.6	50.8	- 4.2	
75	8 51	21.3	8 42	13.1	0 48 29.7	28.9	+ 0.8	
76	3 30	20.5	3 21	12.3	0 43 9.5	8.7	+ 0.8	
77	1 34	20.2	1 27	12.0	0 41 13.8	15.0	- 1.2	
78	5 39	20.8	5 35	12.6	0 45 18.2	22.4	- 4.2	
79	6 28	20.7	6 23	12.6	0 46 7.3	10.4	- 3.1	
80	3 18	20.3	3 11	12.1	0 42 57.7	58.9	- 1.2	
81	3 11	20.2	3 6	12.1	0 42 50.8	53.9	- 3.1	
82	4 16	20.4	4 8	12.2	0 43 55.6	55.8	- 0.2	
83	....	....	10 40	13.1	0 50	26.9	....
84	4 7	20.2	4 1	12.2	0 43 46.8	48.8	- 2.0	
85	8 5	20.8	8 0	12.6	0 47 44.2	47.4	- 3.2	
86	7 56	20.6	7 48	12.5	0 47 35.4	35.5	- 0.1	
87	6 9	20.2	6 3	12.3	0 45 48.8	50.7	- 1.9	
88	9 37	20.8	9 31	12.7	0 49 16.2	18.3	- 2.1	
89	5 21	20.1	5 14	12.1	0 45 0.9	1.9	- 1.0	
90	+ 5 48	-20.2	+ 5 41	-12.1	+ 0 45 27.8	28.9	- 1.1	

ZONE OBSERVATIONS.

A.R. ^{h.} 3 ^{m.} 29 to ^{h.} 5 ^{m.} 32.Dec. ⁰ 40 to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 157.					ZONE 158.					MEAN RIGHT ASCENSION 1860.0					Difference.	
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.			Zone 158.					
										h.	m.	s.	h.	m.	s.			
91	11-12	4	10	1.9	5.8	1.85	-0.35	4	10	1.9	5.9	1.90	-0.19	4	10	1.50	1.71	-0.21
92	8-9		10	9.0	13.1	9.05	0.36		10	8.9	12.9	8.90	0.20		10	8.69	8.70	-0.01
93	10		10	27.0	....	27.00	0.35		10	26.8	30.8	26.80	0.19		10	26.65	26.61	+0.04
94	10		10	29.2	33.2	29.20	0.36		10	29.0	33.0	29.00	0.20		10	28.84	28.80	+0.04
95	..		10	55.6	59.7	55.65	0.36		10	55.4	59.3	55.35	0.20		10	55.29	55.15	+0.14
96	9-10		11	1.4	5.4	1.40	0.35		11	1.2	5.3	1.25	0.19		11	1.05	1.06	-0.01
97	11		11	25.4	29.2	25.30	0.36		.....	.....	.....	.....		11	24.94	.....	....
98	..		.....	.....	.....	.....	....		11	30.7	34.6	30.65	0.20		11	.....	30.45	....
99	..		.....	.....	.....	.....	....		12	6.2	10.4	6.30	0.18		12	.....	6.12	....
100	9-10		12	44.4	48.5	44.45	0.34		12	44.2	48.1	44.15	0.18		12	44.11	43.97	+0.14
101	10-11		13	3.5	7.3	3.40	0.34		13	3.2	7.2	3.20	0.18		13	3.06	3.02	+0.04
102	9-10		13	10.3	14.2	10.25	0.35		13	10.0	14.1	10.05	0.19		13	9.90	9.86	+0.04
103	10-11		13	....	23.6	19.60	0.35		.....	.....	.....	.....		13	19.25	.....	....
104	11-12		14	31.6	35.7	31.65	0.35		14	31.4	35.0	31.20	0.19		14	31.30	31.01	+0.29
105	10-11		14	38.1	42.1	38.10	0.34		14	38.1	42.1	38.10	0.18		14	37.76	37.92	-0.16
106	10-12		15	34.3	38.2	34.25	0.34		15	34.0	38.1	34.05	0.18		15	33.91	33.87	+0.04
107	..		.....	.....	.....	.....	....		15	50.4	54.2	50.30	0.18		15	.....	50.12	....
108	..		.....	.....	.....	.....	....		16	19.6	23.8	19.70	0.17		16	.....	19.53	....
109	11		16	43.0	46.9	42.95	0.33		.....	.....	.....	.....		16	42.62	.....	....
110	11-12		16	59.8	63.9	59.85	0.33		.....	.....	.....	.....		16	59.52	.....	....
111	10		17	30.8	34.3	30.55	0.34		17	30.6	34.5	30.55	0.18		17	30.21	30.37	-0.16
112	10		17	43.1	46.9	43.00	0.33		17	42.6	46.6	42.60	0.17		17	42.67	42.43	+0.24
113	9-10		18	6.2	10.1	6.15	0.33		18	6.3	10.2	6.25	0.17		18	5.82	6.08	-0.26
114	9		18	41.2	45.1	41.15	0.33		18	41.0	45.0	41.00	0.17		18	40.82	40.83	-0.01
115	8		18	43.8	47.9	43.85	0.33		18	43.7	47.5	43.60	0.17		18	43.52	43.43	+0.09
116	10		19	9.7	13.8	9.75	0.33		19	9.5	13.3	9.40	0.17		19	9.42	9.23	+0.19
117	11		19	34.2	....	34.20	0.33		19	34.0	....	34.00	0.17		19	33.87	33.83	+0.04
118	11		19	....	38.3	34.30	0.33		19	....	38.1	34.10	0.17		19	33.97	33.93	+0.04
119	11-12		20	12.6	16.5	12.55	0.33		.....	.....	.....	.....		20	12.22	.....	....
120	9-10		20	19.9	24.0	19.95	0.33		20	19.8	23.5	19.65	0.17		20	19.62	19.48	+0.14
121	11-12		20	43.3	47.3	43.30	0.32		.....	.....	.....	.....		20	42.98	.....	....
122	11-12		21	19.9	24.0	19.95	0.32		21	19.5	23.5	19.50	0.16		21	19.63	19.34	+0.29
123	10		21	44.2	....	44.20	0.32		21	44.2	48.2	44.20	0.16		21	43.88	44.04	-0.16
124	9-10		21	46.5	....	46.50	0.32		21	46.3	50.5	46.40	0.16		21	46.18	46.24	-0.06
125	9-10		21	....	50.5	46.50	0.32		.....	.....	.....	.....		21	46.18	.....	....
126	10-11		22	15.5	19.5	15.50	0.32		22	15.5	19.3	15.40	0.16		22	15.18	15.24	-0.06
127	10		23	3.7	7.7	3.70	0.31		23	3.5	7.4	3.45	0.15		23	3.39	3.30	+0.09
128	9-10		23	11.9	15.8	11.85	0.32		23	11.6	15.6	11.60	0.15		23	11.53	11.45	+0.08
129	10-11		23	37.3	41.4	37.35	0.32		23	37.3	41.3	37.30	0.15		23	37.03	37.15	-0.12
130	9-10		23	42.5	46.4	42.45	0.32		23	42.4	46.1	42.25	0.15		23	42.13	42.10	+0.03
131	9-10		24	21.4	25.3	21.35	0.32		24	21.1	25.1	21.10	0.15		24	21.03	20.95	+0.08
132	10-11		24	29.6	33.6	29.60	0.32		24	29.5	33.5	29.50	0.15		24	29.28	29.35	-0.07
133	11	4	24	45.3	49.1	45.20	-0.31	4	24	45.2	49.0	45.10	-0.15	4	24	44.89	44.95	-0.06
134	..		.....	.....	.....	.....	....		.....	.....	.....	.....		.....	.....	.....	....
135	..		.....	.....	.....	.....	....		.....	.....	.....	.....		.....	.....	.....	....

A.R. $\overset{h.}{3} \overset{m.}{29}$ to $\overset{h.}{5} \overset{m.}{32}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
91	+ 3 37	-19.7	+ 3 30	-11.7	+ 0 43 17.3	18.3	- 1.0	
92	7 43	20.3	7 37	12.1	0 47 22.7	24.9	- 2.2	
93	3 52	19.7	3 48	11.6	0 43 32.3	36.4	- 4.1	
94	8 15	20.3	8 10	12.1	0 47 54.7	57.9	- 3.2	
95	....	....	10 36	12.4	0 50	23.6	...	
96	5 0	19.7	4 52	11.7	0 44 40.3	40.3	0.0	
97	10 7	20.4	....	...	0 49 46.6	....	...
98	....	....	10 4	12.2	0 49	51.8	...	
99	....	....	0 40	11.0	0 40	29.0	...	
100	0 8	18.8	0 2	10.9	0 39 49.2	51.1	- 1.9	
101	3 38	19.2	3 36	11.3	0 43 18.8	24.7	- 5.9	
102	8 48	20.0	8 41	11.9	0 48 28.0	29.1	- 1.1	
103	7 20	19.7	....	...	0 47 0.3	....	...
104	9 36	19.9	9 28	11.8	0 49 16.1	16.2	- 0.1	
105	3 15	19.0	3 9	11.0	0 42 56.0	58.0	- 2.0	
106	9 39	19.7	9 34	11.7	0 49 19.3	22.3	- 3.0	
107	....	....	+ 8 27	11.5	0 48	15.5	...	
108	....	....	- 0 13	10.4	0 39	36.6	...	
109	1 32	18.4	....	...	0 41 13.6	....	...
110	7 53	19.3	....	...	0 47 33.7	....	...
111	7 44	19.2	+ 7 38	11.2	0 47 24.8	26.8	- 2.0	
112	1 10	18.2	1 6	10.4	0 40 51.8	55.6	- 3.8	
113	7 40	19.1	7 38	11.1	0 47 20.9	26.9	- 6.0	
114	7 56	19.0	7 48	11.1	0 47 37.0	36.9	+ 0.1	
115	2 52	18.3	2 44	10.5	0 42 33.7	33.5	+ 0.2	
116	5 0	18.5	4 52	10.7	0 44 41.5	41.3	+ 0.2	
117	5 48	20.6	5 45	10.7	0 45 27.4	34.3	- 6.9	
118	6 29	20.7	6 26	10.8	0 46 8.3	15.2	- 7.9	
119	8 19	18.8	....	...	0 48 0.2	....	...
120	9 26	19.0	9 19	11.1	0 49 7.0	7.9	- 0.9	
121	5 31	18.4	....	...	0 45 12.6	....	...
122	6 9	18.4	6 8	10.6	0 45 50.6	57.4	- 6.8	
123	4 22	18.1	4 16	10.3	0 44 3.9	5.7	- 1.8	
124	7 1	18.4	6 51	10.6	0 46 42.6	40.4	+ 2.2	
125	0 6	17.4	0 0	9.8	0 39 48.6	50.2	- 1.6	
126	7 44	18.4	7 36	10.6	0 47 25.6	25.4	+ 0.2	
127	0 42	17.3	0 35	9.7	0 40 24.7	25.3	- 0.6	
128	2 35	17.6	2 29	9.9	0 42 17.4	19.1	- 1.7	
129	6 20	18.0	6 15	10.3	0 46 2.0	4.7	- 2.7	
130	8 38	18.3	8 24	10.6	0 48 19.7	13.4	+ 6.3	
131	6 9	17.9	6 3	10.2	0 45 51.1	52.8	- 1.7	
132	8 3	18.1	7 59	10.4	0 47 44.9	48.6	- 3.7	
133	+ 4 21	-17.6	+ 4 14	- 9.9	+ 0 44 3.4	4.1	- 0.7	
134	....	....	....	...	.....	....	...
135	....	....	....	...	.....	....	...

ZONE OBSERVATIONS.

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. +⁰40 to ⁰50.

Number of the Star.	Magnitude.	ZONE 157.					ZONE 158.					MEAN RIGHT ASCENSION 1860.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.		Zone 158.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.			
91	11-12	4 10 1.9	5.8	1.85	-0.35	4 10 1.9	5.9	1.90	-0.19	4 10 1.50	1.71	-0.21					
92	8-9	10 9.0	13.1	9.05	0.36	10 8.9	12.9	8.90	0.20	10 8.69	8.70	-0.01					
93	10	10 27.0	....	27.00	0.35	10 26.8	30.8	26.80	0.19	10 26.65	26.61	+0.04				
94	10	10 29.2	33.2	29.20	0.36	10 29.0	33.0	29.00	0.20	10 28.84	28.80	+0.04					
95	..	10 55.6	59.7	55.65	0.36	10 55.4	59.3	55.35	0.20	10 55.29	55.15	+0.14					
96	9-10	11 1.4	5.4	1.40	0.35	11 1.2	5.3	1.25	0.19	11 1.05	1.06	-0.01					
97	11	11 25.4	29.2	25.30	0.36	.....	.....	.....	.....	11 24.94	.....	.....			
98	..	.....	.....	.....	.....	11 30.7	34.6	30.65	0.20	11	30.45	.....				
99	..	.....	.....	.....	.....	12 6.2	10.4	6.30	0.18	12	6.12	.....				
100	9-10	12 44.4	48.5	44.45	0.34	12 44.2	48.1	44.15	0.18	12 44.11	43.97	+0.14					
101	10-11	13 3.5	7.3	3.40	0.34	13 3.2	7.2	3.20	0.18	13 3.06	3.02	+0.04					
102	9-10	13 10.3	14.2	10.25	0.35	13 10.0	14.1	10.05	0.19	13 9.90	9.86	+0.04					
103	10-11	13	23.6	19.60	0.35	.....	.....	.....	.....	13 19.25	.....	.....			
104	11-12	14 31.6	35.7	31.65	0.35	14 31.4	35.0	31.20	0.19	14 31.30	31.01	+0.29					
105	10-11	14 38.1	42.1	38.10	0.34	14 38.1	42.1	38.10	0.18	14 37.76	37.92	-0.16					
106	10-12	15 34.3	38.2	34.25	0.34	15 34.0	38.1	34.05	0.18	15 33.91	33.87	+0.04					
107	..	.....	.....	.....	.....	15 50.4	54.2	50.30	0.18	15	50.12	.....				
108	..	.....	.....	.....	.....	16 19.6	23.8	19.70	0.17	16	19.53	.....				
109	11	16 43.0	46.9	42.95	0.33	.....	.....	.....	.....	16 42.62	.....	.....			
110	11-12	16 59.8	63.9	59.85	0.33	.....	.....	.....	.....	16 59.52	.....	.....			
111	10	17 30.8	34.3	30.55	0.34	17 30.6	34.5	30.55	0.18	17 30.21	30.37	-0.16					
112	10	17 43.1	46.9	43.00	0.33	17 42.6	46.6	42.60	0.17	17 42.67	42.43	+0.24					
113	9-10	18 6.2	10.1	6.15	0.33	18 6.3	10.2	6.25	0.17	18 5.82	6.08	-0.26					
114	9	18 41.2	45.1	41.15	0.33	18 41.0	45.0	41.00	0.17	18 40.82	40.83	-0.01					
115	8	18 43.8	47.9	43.85	0.33	18 43.7	47.5	43.60	0.17	18 43.52	43.43	+0.09					
116	10	19 9.7	13.8	9.75	0.33	19 9.5	13.3	9.40	0.17	19 9.42	9.23	+0.19					
117	11	19 34.2	....	34.20	0.33	19 34.0	....	34.00	0.17	19 33.87	33.83	+0.04			
118	11	19	38.3	34.30	0.33	19	38.1	34.10	0.17	19 33.97	33.93	+0.04					
119	11-12	20 12.6	16.5	12.55	0.33	.....	.....	.....	.....	20 12.22	.....	.....			
120	9-10	20 19.9	24.0	19.95	0.33	20 19.8	23.5	19.65	0.17	20 19.62	19.48	+0.14					
121	11-12	20 43.3	47.3	43.30	0.32	.....	.....	.....	.....	20 42.98	.....	.....			
122	11-12	21 19.9	24.0	19.95	0.32	21 19.5	23.5	19.50	0.16	21 19.63	19.34	+0.29					
123	10	21 44.2	....	44.20	0.32	21 44.2	48.2	44.20	0.16	21 43.88	44.04	-0.16				
124	9-10	21 46.5	....	46.50	0.32	21 46.3	50.5	46.40	0.16	21 46.18	46.24	-0.06				
125	9-10	21	50.5	46.50	0.32	.....	.....	.....	.....	21 46.18	.....	.....			
126	10-11	22 15.5	19.5	15.50	0.32	22 15.5	19.3	15.40	0.16	22 15.18	15.24	-0.06					
127	10	23 3.7	7.7	3.70	0.31	23 3.5	7.4	3.45	0.15	23 3.39	3.30	+0.09					
128	9-10	23 11.9	15.8	11.85	0.32	23 11.6	15.6	11.60	0.15	23 11.53	11.45	+0.08					
129	10-11	23 37.3	41.4	37.35	0.32	23 37.3	41.3	37.30	0.15	23 37.03	37.15	-0.12					
130	9-10	23 42.5	46.4	42.45	0.32	23 42.4	46.1	42.25	0.15	23 42.13	42.10	+0.03					
131	9-10	24 21.4	25.3	21.35	0.32	24 21.1	25.1	21.10	0.15	.....	.....	.....		
132	10-11	24 29.6	33.6	29.60	0.32	24 29.5	33.5	29.50	0.15	.....	35	-0.07				
133	11	4 24 45.3	49.1	45.20	-0.31	4 24 45.2	49.0	45.10	-0.15	4	.....	.....			
134	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
135	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

A.L. 3 30 2 5 33

Dec. 10 10 10 10 10

Number	MICROMETER READINGS				MEAN REFRACTION 1900		Remarks
	Row 17	Row 18	Row 19	Row 20	Row 17	Row 18	
101	1 30	18.7	11.7	0 43 17.8	18.8	- 1.0	
102	1 45	18.8	11.7	0 47 22.7	24.9	- 2.2	
103	2 15	19.7	11.6	0 43 22.9	26.4	- 4.1	
104	2 30	20.8	12.1	0 47 34.7	57.9	- 3.2	
105	...	...	12.4	0 56 ...	23.6	...	
106	3 0	19.7	11.7	0 44 40.3	40.3	0.0	
107	3 15	20.4	...	0 49 46.6	...	...
108	...	...	12.2	0 49 ...	51.8	...	
109	...	...	11.0	0 40 ...	29.0	...	
110	4 0	18.6	10.9	0 38 49.2	51.1	- 1.9	
111	4 15	19.2	11.3	0 43 18.8	24.7	- 5.9	
112	4 30	20.0	11.9	0 46 28.0	29.1	- 1.1	
113	4 45	19.7	...	0 47 0.3	...	...
114	4 30	19.9	11.5	0 49 16.1	16.2	- 0.1	
115	4 15	19.0	11.0	0 42 56.0	56.0	- 2.0	
116	4 30	19.7	11.7	0 49 19.3	22.3	- 3.0	
117	...	...	11.5	0 48 ...	15.5	...	
118	...	...	10.4	0 38 ...	36.6	...	
119	1 32	18.4	...	0 41 13.6	...	...
120	7 53	19.3	...	0 47 33.7	...	...
121	7 44	19.2	11.2	0 47 24.8	26.8	- 2.0	
122	1 10	18.2	10.4	0 40 51.8	55.6	- 2.2	
123	7 40	19.1	11.1	0 47 20.9	26.9	- 2.0	
124	7 56	19.0	11.1	0 47 37.0	36.9	+ 0.1	
125	2 52	18.3	10.5	0 42 33.7	33.5	+ 0.2	
126	5 0	18.5	10.7	0 44 41.5	41.3	+ 0.2	
127	5 48	20.6	10.7	0 45 27.4	34.3	- 1.7	
128	6 29	20.7	10.8	0 46 8.3	15.2	- 1.1	
129	8 19	18.8	...	0 48 0.2	...	...
130	9 26	19.0	11.1	0 49 7.0	7.6	- 0.6	
131	5 31	18.4	...	0 45 12.6	...	...
132	6 9	18.4	10.6	0 45 50.6	57.4	...	
133	4 22	18.1	10.3	0 44 3.9	5.7	...	
134	7 1	18.4	10.6	0 46 42.6	46.1	...	
135	0 6	17.4	9.5	0 39 45.6	54.1	...	
136	7 44	18.4	10.6	0 47 25.6	25.1	...	
137	0 2	17.3	9.7	0 40 24.7	24.1	...	
138	...	17.6	9.9	0 42 17.4	17.1	...	
139	...	18.0	10.3	0 46 2.0	2.1	...	
140	...	18.3	10.6	0 48 15.7	15.1	...	
141	...	17.9	10.2	0 45 5.1	5.1	...	
142	...	18.1	10.4	0 47 4.4	4.4	...	
143	-17.6	+ 4 14	- 9.9	+ 0 44 5.4	5.4	...	
144	...	...	...	...	...	...
145	...	...	...	...	...	...

A.R. $\overset{h.}{3} \overset{m.}{29}$ to $\overset{h.}{5} \overset{m.}{32}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 157.					ZONE 158.					MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.	Zone 158.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.
136	8	4 25 12.0	16.1	12.05	-0.31		4 25 11.7	15.9	11.80	-0.14		4 25 11.74	11.66	+0.08
137	9	25 17.2	21.3	17.25	0.32		.....	.....	.....	.....		25 16.93	.....	.....
138	10	25 39.3	43.2	39.25	0.31		25 39.0	43.2	39.10	0.14		25 38.94	38.96	-0.02
139	9-10	26 19.3	23.2	19.25	0.31		26 19.1	23.1	19.10	0.14		26 18.94	18.96	-0.02
140	10	26 30.5	34.4	30.45	0.32		26 30.2	34.2	30.20	0.14		26 30.13	30.06	+0.07
141	10	26 56.0	59.9	55.95	0.31		26 56.0	59.8	55.90	0.14		26 55.64	55.76	-0.12
142	9-10	28 0.0	4.1	0.05	0.31		27 60.0	63.8	59.90	0.14		27 59.74	59.76	-0.02
143	10	28 37.6	41.4	37.50	0.30		28 37.2	41.2	37.20	0.13		28 37.20	37.07	+0.13
144	10	28 43.5	47.4	43.45	0.30		28 43.4	46.9	43.15	0.13		28 43.15	43.02	+0.13
145	10	29 37.5	41.4	37.45	0.30		29 37.1	41.0	37.05	0.12		29 37.15	36.93	+0.22
146	5-6	30 1.1	5.2	1.15	0.30		30 1.1	5.1	1.10	0.12		30 0.85	0.98	-0.13
147	10	30 38.8	42.8	38.80	0.30		.....	.....	.....	.....		30 38.50	.....	.....
148	11	31 33.1	37.0	33.05	0.31		31 32.8	36.8	32.80	0.12		31 32.74	32.68	+0.04
149	10-11	31 48.4	52.5	48.45	0.30		31 48.3	52.2	48.25	0.12		31 48.15	48.13	+0.02
150	10	32 29.0	33.1	29.05	0.29		32 29.1	32.9	29.00	0.11		32 28.76	28.89	-0.13
151	11	32 31.0	35.0	31.00	0.30		32 31.0	35.0	31.00	0.12		32 30.70	30.88	-0.18
152	11	32 54.4	58.5	54.45	0.30		32 54.2	58.1	54.15	0.11		32 54.15	54.04	+0.11
153	10-11	.....	.....	.....	.....		33 25.5	29.6	25.55	0.11		33 25.44	25.44	.....
154	10-11	33 28.4	32.3	28.35	0.29		33 28.0	32.0	28.00	0.11		33 28.06	27.89	+0.17
155	10	33 37.2	41.2	37.20	0.29		33 37.0	41.2	37.10	0.11		33 36.91	36.99	-0.08
156	9-10	33 43.9	47.7	43.80	0.29		33 43.8	47.5	43.65	0.11		33 43.51	43.54	-0.03
157	10-11	34 32.5	36.2	32.35	0.30		34 32.2	36.3	32.25	0.11		34 32.05	32.14	-0.09
158	10-11	34 37.3	41.3	37.30	0.30		34 37.1	41.1	37.10	0.11		34 37.00	36.99	+0.01
159	10	34 48.7	52.9	48.90	0.30		34 48.7	52.8	48.75	0.11		34 48.60	48.64	-0.04
160	10	34 56.0	59.9	55.95	0.29		34 55.8	59.6	55.70	0.11		34 55.66	55.59	+0.07
161	9	35 47.6	51.5	47.55	0.30		35 47.3	51.3	47.30	0.11		35 47.25	47.19	+0.06
162	10-11	36 1.7	5.8	1.75	0.30		36 1.5	5.5	1.50	0.11		36 1.45	1.39	+0.06
163	9-10	36 43.8	47.9	43.85	0.29		36 43.6	47.5	43.55	0.10		36 43.56	43.45	+0.11
164	9-10	37 7.5	11.6	7.55	0.29		37 7.5	11.2	7.35	0.10		37 7.26	7.25	+0.01
165	11	37 25.3	28.9	25.10	0.29		37 25.1	29.0	25.05	0.10		37 24.81	24.95	-0.14
166	9-10	37 41.6	45.5	41.55	0.29		37 41.4	45.3	41.35	0.11		37 41.26	41.24	+0.02
167	10	37 59.6	.....	59.60	0.28		37 59.1	63.2	59.15	0.10		37 59.32	59.05	+0.27
168	10-11	37 63.9	59.90	0.29			38 0.0	4.0	0.00	0.11		37 59.61	59.89	-0.28
169	11	38 24.6	28.7	24.65	0.29		.....	.....	.....	.....		38 24.36	.....	.....
170	11-12	38 39.6	43.3	39.45	0.29		.....	.....	.....	.....		38 39.74	.....	.....
171	10	39 3.8	7.9	3.85	0.28		39 3.4	7.2	3.30	0.09		39 3.57	3.21	+0.26
172	8-9	39 51.0	54.9	50.95	0.29		39 50.7	54.5	50.60	0.10		39 50.66	50.50	+0.16
173	11-12	40 33.4	37.2	33.30	0.29		40 33.2	37.1	33.15	0.10		40 33.01	33.05	-0.04
174	.....	.....	.....	.....	.....		40 49.8	.....	49.80	0.10		40 49.70	.....	.....
175	11-12	41 16.6	20.0	16.30	0.29		.....	.....	.....	.....		41 16.01	.....	.....
176	10-11	41 25.1	29.0	25.05	0.29		41 25.0	29.0	25.00	0.10		41 24.76	24.90	-0.14
177	10-11	41 43.8	47.8	43.80	0.28		41 43.8	47.4	43.60	0.09		41 43.52	43.57	-0.05
178	10-11	42 26.3	30.3	26.30	0.28		42 26.1	30.2	26.15	0.09		42 26.02	26.06	-0.04
179	9-10	42 31.0	34.9	30.95	0.28		42 30.8	34.7	30.75	0.09		42 30.67	30.66	+0.01
180	10-11	4 42 43.3	47.1	43.20	-0.28		4 42 42.8	47.0	42.90	-0.09		4 42 42.92	42.81	+0.11

A.R. $\overset{h.}{3} \overset{m.}{20}$ to $\overset{h.}{5} \overset{m.}{32}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
136	+ 1 2	-17.1	....	...	+ 0 40 44.9	....	...
137	9 37	18.3	+ 9 30	+10.5	0 49 18.7	19.5	- 0.8	
138	3 3	16.3	2 56	9.7	0 42 46.7	46.3	+ 0.4	
139	3 42	17.2	3 36	9.7	0 43 24.8	26.3	- 1.5	
140	9 49	18.1	9 44	10.6	0 49 30.9	33.4	- 2.5	
141	7 27	17.7	7 22	10.2	0 47 9.3	11.8	- 2.5	
142	7 18	17.5	7 11	10.0	0 47 0.5	1.0	- 0.5	
143	0 29	16.5	+ 0 21	9.0	0 40 12.5	12.0	+ 0.5	
144	0 2	16.4	- 0 8	8.9	0 39 45.6	43.1	+ 2.5	
145	0 58	16.4	+ 0 49	9.0	0 40 41.6	40.0	+ 1.6	
146	3 2	16.6	2 52	9.2	0 42 45.4	42.8	+ 2.6	
147	2 58	16.5	....	...	0 42 41.5	....	...
148	8 56	17.2	8 54	9.8	0 48 38.8	44.2	- 5.4	
149	+ 0 46	16.0	0 39	8.7	0 40 30.0	30.3	- 0.3	
150	- 0 8	15.8	....	...	0 39 36.2	....	...
151	+ 7 10	16.8	7 6	9.5	0 46 53.2	56.5	- 3.3	
152	1 38	16.0	1 28	8.6	0 41 22.0	19.4	+ 2.6	
153	4 2	16.3	3 53	8.9	0 43 45.7	44.1	- 3.9	
154	1 9	15.8	1 6	8.5	0 40 53.2	57.5	- 4.3	
155	1 22	15.8	1 18	8.5	0 41 6.2	9.5	- 3.3	
156	1 30	15.8	1 23	8.5	0 41 14.2	14.5	- 0.3	
157	7 22	16.6	7 16	9.2	0 47 5.4	6.8	- 1.4	
158	7 23	16.5	7 16	9.2	0 47 6.5	6.8	- 0.3	
159	8 18	16.6	8 11	9.3	0 48 1.4	1.7	- 0.3	
160	1 24	15.6	1 21	8.3	0 41 8.4	12.7	- 4.3	
161	10 39	16.8	10 33	9.5	0 50 22.2	23.5	- 1.3	
162	8 8	16.4	7 2	9.0	0 47 51.6	53.0	- 1.4	
163	3 20	15.7	3 14	8.4	0 43 4.3	5.6	- 1.3	
164	5 31	15.9	5 23	8.6	0 45 15.1	14.4	+ 0.7	
165	0 36	15.2	0 23	7.9	0 40 20.8	15.1	+ 5.7	
166	8 47	16.3	8 42	9.0	0 48 30.7	33.0	- 2.3	
167	0 20	15.0	0 15	7.8	0 40 5.0	7.2	- 2.2	
168	9 36	16.3	9 30	9.1	0 49 19.7	20.9	- 1.2	
169	3 11	15.4	....	...	0 42 55.6	....	...
170	10 7	16.3	....	...	0 49 50.7	....	...
171	1 29	15.0	1 23	7.8	0 41 14.0	15.2	- 1.2	
172	9 32	16.1	9 26	8.8	0 49 15.9	17.2	- 1.3	
173	7 23	15.7	7 18	8.5	0 47 7.3	9.5	- 2.2	
174	....	....	8 46	8.6	0 48	37.4	...	
175	8 ..	....	....	...	.....	....	...
176	10 5	15.9	9 57	8.7	0 49 49.1	48.3	+ 0.8	
177	7 46	15.5	7 38	8.4	0 47 30.5	29.6	+ 0.9	
178	3 24	14.8	3 18	7.7	0 43 9.2	10.3	- 1.1	
179	3 57	14.9	3 47	7.7	0 43 42.1	39.3	+ 2.8	
180	+ 4 12	-14.9	+ 4 9	+ 7.8	+ 0 43 57.1	61.2	- 4.1	

ZONE OBSERVATIONS.

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. ^c+0 40 to ^o0 50.

Number of the Star.	Magnitude.	ZONE 157.				ZONE 158.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.	Zone 158.	
		^{h.} ^{m.} ^{s.}	^{h.} ^{m.} ^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{h.} ^{m.} ^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{h.} ^{m.} ^{s.}	
181	10-11	4 42 52.8	56.7	52.75	-0.28	4 42 52.8	56.3	52.55	-0.09	4 42 52.47	52.46	+0.01
182	10-11	43 4.1	....	4.10	0.28	43 4.0	7.9	3.95	0.09	43 3.82	3.86	-0.04
183	10	43	12.0	8.00	0.27	....	....	....	....	43 7.73	....	....
184	9	43 14.7	18.5	14.60	0.28	43 14.1	18.1	14.10	0.09	43 14.32	14.01	+0.31
185	..	44 9.9	13.9	9.90	0.27	44 9.7	13.8	9.75	0.08	44 9.63	9.67	-0.04
186	9-10	44	18.4	14.40	0.27	44 14.6	18.4	14.50	0.08	44 14.13	14.42	-0.29
187	9-11	44 43.8	47.6	43.70	0.27	44 43.3	47.5	43.40	0.08	44 43.43	43.32	+0.11
188	10	45 12.7	16.9	12.80	0.27	45 12.6	16.6	12.60	0.08	45 12.53	12.52	+0.01
189	9-10	45 13.3	17.4	13.35	0.27	45 13.3	17.2	13.25	0.08	45 13.08	13.17	-0.09
190	9-10	46 26.1	29.9	26.00	0.27	46 25.8	29.8	25.80	0.08	46 25.73	25.72	+0.01
191	10	46 52.7	56.4	52.55	0.27	46 52.4	56.5	52.45	0.08	46 52.28	52.37	-0.09
192	10-11	47 20.4	24.4	20.40	0.27	47 20.1	23.9	20.00	0.08	47 20.13	19.92	+0.21
193	11	47 26.0	29.9	25.95	0.26	....	....	....	....	47 25.69	....	....
194	10	47 35.6	39.7	35.65	0.26	47 35.4	39.3	35.35	0.07	47 35.39	35.28	+0.07
195	9-11	48 1.7	5.6	1.65	0.26	48 1.4	5.4	1.40	0.07	48 1.39	1.33	+0.06
196	..	....	....	....	....	48 33.2	37.0	33.10	0.07	48	33.03	....
197	11	49 9.5	13.4	9.45	0.26	49 9.2	13.2	9.20	0.07	49 9.19	9.13	+0.06
198	10-11	49 32.0	35.7	31.85	0.25	49 31.9	35.9	31.90	0.06	49 31.60	31.84	-0.24
199	10-11	49	41.0	37.00	0.26	49 37.3	41.2	37.25	0.06	49 36.74	36.99	-0.25
200	11	50 6.1	....	6.10	0.26	50 5.7	9.8	5.75	0.06	50 5.84	5.69	+0.15
201	9-10	50 10.4	14.3	10.35	0.26	50 10.4	14.4	10.40	0.06	50 10.09	10.34	-0.25
202	11	50	53.7	49.70	0.25	50 49.5	53.4	49.45	0.06	50 49.45	49.39	+0.06
203	11	51	21.9	17.90	0.25	51 17.7	21.6	17.65	0.06	51 17.65	17.59	+0.06
204	10-11	51 27.1	31.0	27.05	0.25	51 26.7	30.7	26.70	0.06	51 26.80	26.64	+0.14
205	9-10	52 14.5	18.5	14.50	0.25	52 14.3	18.2	14.25	0.06	52 14.25	14.19	+0.06
206	..	....	....	....	....	52 29.7	33.3	29.50	0.06	52	29.44	....
207	11-12	52 39.8	43.7	39.75	0.25	....	....	....	....	52 39.50	....	....
208	11-12	52	45.0	41.00	0.25	52 40.8	44.7	40.75	0.05	52 40.75	40.70	+0.05
209	9-10	53 7.9	11.9	7.90	0.25	53 7.6	11.5	7.55	0.05	53 7.65	7.50	+0.15
210	10-12	53 48.3	52.5	48.40	0.25	53 48.0	51.7	47.85	0.05	53 48.15	47.80	+0.35
211	10-11	53 50.8	54.7	50.75	0.25	53 50.4	54.4	50.40	0.05	53 50.50	50.35	+0.15
212	..	....	....	....	....	53 57.5	61.5	57.50	0.05	53	57.45	....
213	10	54 11.5	15.3	11.40	0.24	54 11.2	15.3	11.25	0.05	54 11.16	11.20	-0.04
214	8-9	....	....	....	....	54 43.3	47.1	43.20	0.05	54	43.15	....
215	11-12	55 3.9	7.9	3.90	0.24	....	....	....	....	55 3.66	....	....
216	..	....	....	....	....	55 39.2	43.2	39.20	0.04	55	39.16	....
217	10-12	55 47.9	51.4	47.65	0.24	....	....	....	....	55 47.41	....	....
218	10	55 55.8	59.6	55.70	0.24	....	....	....	....	55 55.46	....	....
219	10-11	57 18.2	22.2	18.20	0.24	57 18.1	22.1	18.10	0.04	57 17.96	18.06	-0.10
220	10-11	57 34.3	38.5	34.40	0.24	57 34.2	38.3	34.25	0.04	57 34.16	34.21	-0.05
221	10-11	57 36.5	40.4	36.45	0.24	57 36.2	40.2	36.20	0.04	57 36.21	36.16	+0.05
222	11	57	42.5	38.50	0.24	....	....	....	....	57 38.26	....	....
223	10-11	57 53.0	57.2	53.10	0.24	57 53.2	57.1	53.15	0.03	57 52.86	53.12	-0.26
224	11	58	23.0	19.00	0.23	....	....	....	....	58 18.77	....	....
225	10-11	4 59 3.9	8.1	4.00	-0.23	4 59 3.7	7.7	3.70	-0.03	4 59 3.77	3.67	+0.10

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
181	+10 0	-15.7	+ 9 58	- 8.5	+ 0 49 44.3	49.5	- 5.2	
182	6 18	15.1	6 9	8.0	0 46 2.9	1.0	+ 1.9	
183	1 44	14.5	....	...	0 41 29.5	....	...
184	8 40	15.4	8 36	8.3	0 48 24.6	27.7	- 3.1	
185	....	....	....	...	.....	....	...
186	+ 7 18	15.1	+ 7 7	8.0	0 46 62.9	59.0	+ 3.9	
187	- 0 1	14.0	- 0 7	6.9	0 39 45.0	46.1	- 1.1	
188	+ 1 6	14.1	+ 1 1	7.0	0 40 51.9	54.0	- 2.1	
189	3 58	14.5	3 50	7.4	0 43 43.5	42.6	+ 0.9	
190	8 8	14.9	7 59	7.8	0 47 53.1	51.2	+ 1.9	
191	9 1	14.9	7 51	7.8	0 48 46.1	43.2	+ 2.9	
192	9 54	15.0	9 50	8.0	0 49 39.0	42.0	- 3.0	
193	4 20	14.2	....	...	0 44 5.8	....	...
194	7 11	14.6	7 3	7.6	0 46 56.4	55.4	+ 1.0	
195	4 31	14.1	4 28	7.2	0 44 16.9	20.8	- 3.9	Double comp., 7" s. f.
196	....	....	8 50	7.7	0 48	42.3	...	
197	5 37	14.1	5 30	7.2	0 45 22.9	22.8	+ 0.1	
198	1 55	13.6	1 43	6.6	0 41 41.4	36.4	+ 5.0	
199	8 28	14.4	8 22	7.5	0 48 13.6	14.5	- 0.9	
200	8 19	14.3	8 12	7.4	0 48 4.7	4.6	+ 0.2	
201	6 24	14.1	6 18	7.2	0 46 9.9	10.8	- 0.9	
202	2 7	13.4	2 1	6.5	0 41 53.6	54.5	- 0.9	
203	2 8	13.3	1 59	6.4	0 41 54.7	52.6	+ 2.1	
204	5 31	13.8	5 25	6.9	0 45 17.2	18.1	- 0.9	
205	9 26	14.1	9 18	7.3	0 49 11.9	10.7	+ 1.2	
206	....	....	6 11	6.9	0 46	4.1	...	
207	6 19	13.7	....	...	0 46 5.3	....	...
208	4 7	13.4	4 2	6.5	0 43 53.6	55.5	- 1.9	
209	7 52	13.9	7 45	7.0	0 47 38.1	38.0	+ 0.1	
210	4 4	13.2	3 53	6.4	0 43 50.8	46.6	+ 4.2	
211	9 10	14.0	9 3	7.1	0 48 56.0	55.9	+ 0.1	
212	....	....	....	...	.....	....	...
213	3 0	13.0	2 52	6.2	0 42 47.0	45.8	+ 1.2	
214	10 41	14.0	10 34	7.2	0 50 27.0	26.8	+ 0.2	
215	1 18	12.7	....	...	0 41 5.3	....	...
216	....	....	1 8	5.8	0 41	2.2	...	
217	4 56	13.1	....	...	0 44 42.9	....	...
218	2 11	12.7	....	...	0 41 58.3	....	...
219	8 29	13.4	8 20	6.6	0 48 15.6	13.4	+ 2.2	
220	6 1	13.0	5 54	6.2	0 45 48.0	47.8	+ 0.2	
221	6 12	13.0	6 6	6.2	0 45 59.0	59.8	- 0.8	
222	5 55	13.0	....	...	0 45 42.0	....	...
223	+ 4 38	12.7	4 30	6.0	0 44 25.3	24.0	+ 1.3	
224	- 0 1	12.0	....	...	0 39 47.0	....	...
225	+ 3 12	-12.4	+ 3 8	- 5.6	+ 0 42 59.6	62.4	- 2.8	

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 157.				ZONE 158.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.	Zone 158.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
181	10-11	4 42 52.8	56.7	52.75	-0.28	4 42 52.8	56.3	52.55	-0.09	4 42 52.47	52.46	+0.01
182	10-11	43 4.1	....	4.10	0.28	43 4.0	7.9	3.95	0.09	43 3.82	3.86	-0.04
183	10	43	12.0	8.00	0.27	.....	.....	.....	....	43 7.73	.....	....
184	9	43 14.7	18.5	14.60	0.28	43 14.1	18.1	14.10	0.09	43 14.32	14.01	+0.31
185	..	44 9.9	13.9	9.90	0.27	44 9.7	13.8	9.75	0.08	44 9.63	9.67	-0.04
186	9-10	44	18.4	14.40	0.27	44 14.6	18.4	14.50	0.08	44 14.13	14.42	-0.29
187	9-11	44 43.8	47.6	43.70	0.27	44 43.3	47.5	43.40	0.08	44 43.43	43.32	+0.11
188	10	45 12.7	16.9	12.80	0.27	45 12.6	16.6	12.60	0.08	45 12.53	12.52	+0.01
189	9-10	45 13.3	17.4	13.35	0.27	45 13.3	17.2	13.25	0.08	45 13.08	13.17	-0.09
190	9-10	46 26.1	29.9	26.00	0.27	46 25.8	29.8	25.80	0.08	46 25.73	25.72	+0.01
191	10	46 52.7	56.4	52.55	0.27	46 52.4	56.5	52.45	0.08	46 52.28	52.37	-0.09
192	10-11	47 20.4	24.4	20.40	0.27	47 20.1	23.9	20.00	0.08	47 20.13	19.92	+0.21
193	11	47 26.0	29.9	25.95	0.26	.....	.....	.....	....	47 25.69	.....	....
194	10	47 35.6	39.7	35.65	0.26	47 35.4	39.3	35.35	0.07	47 35.39	35.28	+0.07
195	9-11	48 1.7	5.6	1.65	0.26	48 1.4	5.4	1.40	0.07	48 1.39	1.33	+0.06
196	..	.....	.....	.....	....	48 33.2	37.0	33.10	0.07	48	33.03	....
197	11	49 9.5	13.4	9.45	0.26	49 9.2	13.2	9.20	0.07	49 9.19	9.13	+0.06
198	10-11	49 32.0	35.7	31.85	0.25	49 31.9	35.9	31.90	0.06	49 31.60	31.84	-0.24
199	10-11	49	41.0	37.00	0.26	49 37.3	41.2	37.25	0.06	49 36.74	36.99	-0.25
200	11	50 6.1	....	6.10	0.26	50 5.7	9.8	5.75	0.06	50 5.84	5.69	+0.15
201	9-10	50 10.4	14.3	10.35	0.26	50 10.4	14.4	10.40	0.06	50 10.09	10.34	-0.25
202	11	50	53.7	49.70	0.25	50 49.5	53.4	49.45	0.06	50 49.45	49.39	+0.06
203	11	51	21.9	17.90	0.25	51 17.7	21.6	17.65	0.06	51 17.65	17.59	+0.06
204	10-11	51 27.1	31.0	27.05	0.25	51 26.7	30.7	26.70	0.06	51 26.80	26.64	+0.14
205	9-10	52 14.5	18.5	14.50	0.25	52 14.3	18.2	14.25	0.06	52 14.25	14.19	+0.06
206	..	.....	.....	.....	....	52 29.7	33.3	29.50	0.06	52	29.44	....
207	11-12	52 39.8	43.7	39.75	0.25	.....	.....	.....	....	52 39.50	.....	....
208	11-12	52	45.0	41.00	0.25	52 40.8	44.7	40.75	0.05	52 40.75	40.70	+0.05
209	9-10	53 7.9	11.9	7.90	0.25	53 7.6	11.5	7.55	0.05	53 7.65	7.50	+0.15
210	10-12	53 48.3	52.5	48.40	0.25	53 48.0	51.7	47.85	0.05	53 48.15	47.80	+0.35
211	10-11	53 50.8	54.7	50.75	0.25	53 50.4	54.4	50.40	0.05	53 50.50	50.35	+0.15
212	..	.....	.....	.....	....	53 57.5	61.5	57.50	0.05	53	57.45	....
213	10	54 11.5	15.3	11.40	0.24	54 11.2	15.3	11.25	0.05	54 11.16	11.20	-0.04
214	8-9	.....	.....	.....	....	54 43.3	47.1	43.20	0.05	54	43.15	....
215	11-12	55 3.9	7.9	3.90	0.24	.....	.....	.....	....	55 3.66	.....	....
216	..	.....	.....	.....	....	55 39.2	43.2	39.20	0.04	55	39.16	....
217	10-12	55 47.9	51.4	47.65	0.24	.....	.....	.....	....	55 47.41	.....	....
218	10	55 55.8	59.6	55.70	0.24	.....	.....	.....	....	55 55.46	.....	....
219	10-11	57 18.2	22.2	18.20	0.24	57 18.1	22.1	18.10	0.04	57 17.96	18.06	-0.10
220	10-11	57 34.3	38.5	34.40	0.24	57 34.2	38.3	34.25	0.04	57 34.16	34.21	-0.05
221	10-11	57 36.5	40.4	36.45	0.24	57 36.2	40.2	36.20	0.04	57 36.21	36.16	+0.05
222	11	57	42.5	38.50	0.24	.....	.....	.....	....	57 38.26	.....	....
223	10-11	57 53.0	57.2	53.10	0.24	57 53.2	57.1	53.15	0.03	57 52.86	53.12	-0.26
224	11	58	23.0	19.00	0.23	.....	.....	.....	....	58 18.77	.....	....
225	10-11	4 59 3.9	8.1	4.00	-0.23	4 59 3.7	7.7	3.70	-0.03	4 59 3.77	3.67	+0.10

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
181	+10 0	-15.7	+ 9 58	- 8.5	+ 0 49 44.3	49.5	- 5.2	
182	6 18	15.1	6 9	8.0	0 46 2.9	1.0	+ 1.9	
183	1 44	14.5	....	...	0 41 29.5	....	...
184	8 40	15.4	8 36	8.3	0 48 24.6	27.7	- 3.1	
185	....	....	....	...	.....	....	...
186	+ 7 18	15.1	+ 7 7	8.0	0 46 62.9	59.0	+ 3.9	
187	- 0 1	14.0	- 0 7	6.9	0 39 45.0	46.1	- 1.1	
188	+ 1 6	14.1	+ 1 1	7.0	0 40 51.9	54.0	- 2.1	
189	3 58	14.5	3 50	7.4	0 43 43.5	42.6	+ 0.9	
190	8 8	14.9	7 59	7.8	0 47 53.1	51.2	+ 1.9	
191	9 1	14.9	7 51	7.8	0 48 46.1	43.2	+ 2.9	
192	9 54	15.0	9 50	8.0	0 49 39.0	42.0	- 3.0	
193	4 20	14.2	....	...	0 44 5.8	....	...
194	7 11	14.6	7 3	7.6	0 46 56.4	55.4	+ 1.0	
195	4 31	14.1	4 28	7.2	0 44 16.9	20.8	- 3.9	Double comp., 7" s. f.
196	....	....	8 50	7.7	0 48	42.3	...	
197	5 37	14.1	5 30	7.2	0 45 22.9	22.8	+ 0.1	
198	1 55	13.6	1 43	6.6	0 41 41.4	36.4	+ 5.0	
199	8 28	14.4	8 22	7.5	0 48 13.6	14.5	- 0.9	
200	8 19	14.3	8 12	7.4	0 48 4.7	4.6	+ 0.2	
201	6 24	14.1	6 18	7.2	0 46 9.9	10.8	- 0.9	
202	2 7	13.4	2 1	6.5	0 41 53.6	54.5	- 0.9	
203	2 8	13.3	1 59	6.4	0 41 54.7	52.6	+ 2.1	
204	5 31	13.8	5 25	6.9	0 45 17.2	18.1	- 0.9	
205	9 26	14.1	9 18	7.3	0 49 11.9	10.7	+ 1.2	
206	....	....	6 11	6.9	0 46	4.1	...	
207	6 19	13.7	....	...	0 46 5.3	....	...
208	4 7	13.4	4 2	6.5	0 43 53.6	55.5	- 1.9	
209	7 52	13.9	7 45	7.0	0 47 38.1	38.0	+ 0.1	
210	4 4	13.2	3 53	6.4	0 43 50.8	46.6	+ 4.2	
211	9 10	14.0	9 3	7.1	0 48 56.0	55.9	+ 0.1	
212	....	....	....	...	.....	....	...
213	3 0	13.0	2 52	6.2	0 42 47.0	45.8	+ 1.2	
214	10 41	14.0	10 34	7.2	0 50 27.0	26.8	+ 0.2	
215	1 18	12.7	....	...	0 41 5.3	....	...
216	....	....	1 8	5.8	0 41	2.2	...	
217	4 56	13.1	....	...	0 44 42.9	....	...
218	2 11	12.7	....	...	0 41 58.3	....	...
219	8 29	13.4	8 20	6.6	0 48 15.6	13.4	+ 2.2	
220	6 1	13.0	5 54	6.2	0 45 48.0	47.8	+ 0.2	
221	6 12	13.0	6 6	6.2	0 45 59.0	59.8	- 0.8	
222	5 55	13.0	....	...	0 45 42.0	....	...
223	+ 4 38	12.7	4 30	6.0	0 44 25.3	24.0	+ 1.3	
224	- 0 1	12.0	....	...	0 39 47.0	....	...
225	+ 3 12	-12.4	+ 3 8	- 5.6	+ 0 42 59.6	62.4	- 2.8	

A.R. ^{h.} 3 ^{m.} 29 to ^{h.} 5 ^{m.} 32.Dec. +⁰ 40 to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 157.					ZONE 158.					MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.		Zone 158.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.			
226	..	4 59	....	17.0	13.00	-0.24	4 59	13.0	16.8	12.90	-0.03	4 59	12.76	12.87	-0.11	
227	10	59	20.5	24.5	20.50	0.23	4 59	....	24.4	20.40	0.03	59	20.27	20.37	-0.10	
228	11	4 59	....	26.3	22.30	0.24	.....	.....	.....	.....	.....	4 59	22.06	.....	.....
229	8-9	5 0	4.5	8.5	4.50	0.24	5 0	4.3	8.2	4.25	0.03	5 0	4.26	4.22	+0.04		
230	..	.....	.....	.....	.....	.....	0	15.1	19.2	15.15	0.02	0	.....	15.13	.....	
231	9-10	0	22.7	....	22.70	0.23	.....	.....	.....	.....	.....	0	22.47	.....	.....
232	10-11	0	44.3	48.3	44.30	0.23	0	43.9	47.9	43.90	0.02	0	44.07	43.88	+0.19		
233	10	0	46.4	50.4	46.40	0.23	.....	.....	.....	.....	.....	0	46.17	.....	.....
234	11-12	1	7.6	....	7.60	0.23	1	7.8	11.8	7.80	0.02	1	7.37	7.78	-0.41	
235	8-10	1	13.1	17.0	13.05	0.23	1	12.9	16.8	12.85	0.02	1	12.82	12.83	-0.01		
236	10	1	44.0	47.9	43.95	0.23	1	43.5	47.8	43.65	0.02	1	43.72	43.63	+0.09		
237	10	1	47.2	51.2	47.20	0.24	1	47.2	51.2	47.20	0.02	1	46.96	47.18	-0.22		
238	9-10	2	32.3	36.3	32.30	0.23	2	32.2	36.1	32.15	0.02	2	32.07	32.13	-0.06		
239	9-10	2	47.0	50.7	46.85	0.23	2	46.7	50.7	46.70	0.02	2	46.62	46.68	-0.06		
240	10	3	0.5	4.6	0.55	0.23	3	0.5	4.4	0.45	0.02	3	0.32	0.43	-0.11		
241	10	3	12.9	16.8	12.85	0.22	3	12.5	16.7	12.60	0.01	3	12.63	12.59	+0.04		
242	11	3	35.4	39.3	35.35	0.22	3	35.0	39.1	35.05	0.01	3	35.13	35.04	+0.09		
243	11-12	4	12.5	....	12.50	0.23	4	....	16.7	12.70	0.02	4	12.27	12.68	-0.41
244	11	4	38.9	43.0	38.95	0.22	4	38.9	42.7	38.80	0.01	4	38.73	38.79	-0.06		
245	10-11	4	50.4	54.3	50.35	0.22	4	50.3	54.3	50.30	0.01	4	50.13	50.29	-0.16		
246	9-10	5	1.6	5.6	1.60	0.22	5	1.4	5.4	1.40	0.01	5	1.38	1.39	-0.01		
247	11	5	19.9	24.0	19.95	0.22	.....	.....	.....	.....	.....	5	19.73	.....	.....
248	10-11	5	37.2	41.3	37.25	0.23	5	37.0	41.0	37.00	0.01	5	37.02	36.99	+0.03		
249	11	5	39.8	43.8	39.80	0.22	.....	.....	.....	.....	.....	5	39.58	.....	.....
250	10-11	5	....	54.1	50.10	0.23	5	50.1	53.8	49.95	0.01	5	49.87	49.94	-0.07	
251	11	6	....	36.2	32.20	0.22	6	32.3	36.2	32.25	-0.01	6	31.98	32.24	-0.26	
252	11	6	58.0	61.9	57.95	0.22	6	57.9	61.8	57.85	0.00	6	57.73	57.85	-0.12		
253	10	7	24.2	28.2	24.20	0.22	7	24.0	27.9	23.95	0.00	7	23.98	23.95	+0.03		
254	11	7	29.2	33.2	29.20	0.22	7	29.0	32.8	28.90	0.00	7	28.98	28.90	+0.08		
255	11	7	49.7	53.7	49.70	0.22	7	49.5	53.7	49.60	0.00	7	49.48	49.60	-0.12		
256	10-11	7	58.8	62.6	58.70	0.22	7	58.8	62.7	58.75	0.00	7	58.48	58.75	-0.27		
257	9-10	8	1.1	5.3	1.20	0.22	8	0.9	4.8	0.85	0.00	8	0.98	0.85	+0.13		
258	11	8	25.7	....	25.70	0.22	.....	.....	.....	.....	.....	8	25.48	.....	.....
259	10-11	9	4.7	1.0	4.70	0.22	9	4.4	8.3	4.35	0.00	9	4.48	4.35	+0.13		
260	10	9	5.8	9.5	5.65	0.22	9	5.4	9.4	5.40	0.00	9	5.43	5.40	+0.03		
261	10-11	9	26.7	30.6	26.65	0.21	9	26.4	30.5	26.45	+0.01	9	26.44	26.46	-0.02		
262	11-12	.....	.....	.....	.....	.....	10	12.1	15.7	11.90	0.00	10	.....	11.90	.....	
263	11	10	35.5	39.3	35.40	0.21	.....	.....	.....	.....	.....	10	35.19	.....	.....
264	10	10	48.7	52.8	48.75	0.22	10	48.5	52.4	48.45	0.00	10	48.53	48.45	+0.08		
265	9-10	11	10.4	14.3	10.35	0.21	11	10.1	14.1	10.10	0.01	11	10.14	10.11	+0.03		
266	9-10	11	12.0	15.9	11.95	0.21	11	11.7	15.7	11.70	0.01	11	11.74	11.71	+0.03		
267	10-11	11	44.4	48.4	44.40	0.21	11	44.2	48.1	44.15	0.01	11	44.19	44.16	+0.03		
268	9-10	12	4.2	8.1	4.15	0.21	12	4.1	7.9	4.00	0.01	12	3.94	4.01	-0.07		
269	9-10	12	27.4	31.4	27.40	0.20	12	27.2	31.3	27.25	0.02	12	27.20	27.27	-0.07		
270	9-10	5	12	36.0	40.0	-0.21	5	12	35.7	39.7	35.70	+0.01	5	12	35.79	35.71	+0.08

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
226	.....	.....	+ 4 13	- 5.8	+ 0 44	7.2	...	
227	+ 2 57	-12.3	2 51	5.6	0 42 44.7	45.4	- 0.7	
228	9 50	13.3	.....	...	0 49 36.7	.....	...
229	8 19	13.0	8 15	6.3	0 48 6.0	8.7	- 2.7	
230	.....	.....	1 6	5.2	0 41	0.8	...	
231	1 9	11.9	.....	...	0 40 57.1	.....	...
232	6 27	12.6	.....	...	0 46 14.4	.....	...
233	3 56	12.2	3 49	5.5	0 43 43.8	43.5	+ 0.3	
234	2 42	12.0	2 34	5.3	0 42 30.0	28.7	+ 1.3	
235	5 35	12.4	5 27	5.7	0 45 22.6	21.3	+ 1.3	
236	7 10	12.6	7 3	5.9	0 46 57.4	57.1	+ 0.3	
237	10 21	13.0	10 16	6.3	0 50 8.0	9.7	+ 1.7	
238	8 57	12.6	8 49	6.0	0 48 44.4	43.0	+ 1.4	
239	10 18	12.8	10 14	6.2	0 50 5.2	8.8	- 3.6	
240	+ 6 22	12.2	+ 6 17	5.6	0 46 9.8	11.4	- 1.6	
241	- 0 1	11.3	- 0 6	4.7	0 39 47.7	49.3	- 1.6	
242	+ 1 33	11.5	+ 0 22	...	0 41 21.5	17.3	+ 4.2	
243	8 38	12.4	8 30	6.0	0 48 25.6	24.0	+ 1.6	
244	3 22	11.6	3 15	5.0	0 43 10.4	10.0	+ 0.4	
245	4 0	11.6	3 53	5.1	0 43 48.4	47.9	+ 0.5	
246	2 36	11.4	2 26	4.8	0 42 24.6	21.2	+ 3.4	
247	2 30	11.3	.....	...	0 42 18.7	.....	...
248	7 30	12.0	7 29	5.5	0 47 18.0	23.5	- 5.5	
249	1 12	11.1	.....	...	0 41 0.9	.....	...
250	7 57	12.0	7 50	5.5	0 47 45.0	44.5	+ 0.5	
251	6 13	11.7	6 6	5.2	0 46 1.3	0.8	+ 0.5	
252	1 52	11.0	2 43	4.7	0 41 41.0	38.3	+ 2.7	
253	6 56	11.7	6 49	5.2	0 46 44.3	43.8	+ 0.5	
254	6 27	11.6	6 18	5.1	0 46 15.4	12.9	+ 2.5	
255	3 23	11.1	3 14	4.6	0 43 11.9	9.4	+ 2.5	
256	4 47	11.3	4 39	4.7	0 44 35.7	34.3	+ 1.5	
257	7 18	11.6	7 12	5.1	0 47 6.4	6.9	- 0.5	
258	3 45	11.1	.....	...	0 43 33.9	.....	...
259	9 6	11.7	8 58	5.3	0 48 54.3	52.7	+ 1.6	
260	8 2	11.6	7 53	5.1	0 47 50.6	47.9	+ 2.7	
261	0 47	10.5	0 44	4.1	0 40 36.5	39.9	- 3.4	
262	.....	.....	5 37	4.6	0 45	32.4	...	
263	1 31	10.4	.....	...	0 41 20.6	.....	...
264	7 50	11.3	7 44	4.9	0 47 38.7	39.1	- 0.4	
265	6 53	11.1	6 48	4.7	0 46 41.9	43.3	- 1.4	
266	3 2	10.5	2 54	4.2	0 42 51.5	49.8	+ 1.7	
267	6 57	11.0	6 51	4.7	0 46 46.0	46.3	- 0.3	
268	4 14	10.6	4 6	4.2	0 44 3.4	1.8	+ 1.6	
269	1 30	10.1	1 22	3.8	0 41 19.9	18.2	+ 1.7	
270	+ 4 34	-10.5	+ 4 28	- 4.2	+ 0 44 23.5	23.8	- 0.3	

A.R. ^{h.} 3 ^{m.} 29 to ^{h.} 5 ^{m.} 32.Dec. +⁰ 40 to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 157.				ZONE 158.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.	Zone 158.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
226	..	4 59	17.0	13.00	-0.24	4 59 13.0	16.8	12.90	-0.03	4 59 12.76	12.87	-0.11
227	10	59 20.5	24.5	20.50	0.23	4 59	24.4	20.40	0.03	59 20.27	20.37	-0.10
228	11	4 59	26.3	22.30	0.24	.....	.....	.....	.....	4 59 22.06	.....	.....
229	8-9	5 0 4.5	8.5	4.50	0.24	5 0 4.3	8.2	4.25	0.03	5 0 4.26	4.22	+0.04
230	..	.....	.....	.....	.....	0 15.1	19.2	15.15	0.02	0 15.13	.....	.....
231	9-10	0 22.7	....	22.70	0.23	.....	.....	.....	.....	0 22.47	.....	.....
232	10-11	0 44.3	48.3	44.30	0.23	0 43.9	47.9	43.90	0.02	0 44.07	43.88	+0.19
233	10	0 46.4	50.4	46.40	0.23	.....	.....	.....	.....	0 46.17	.....	.....
234	11-12	1 7.6	....	7.60	0.23	1 7.8	11.8	7.80	0.02	1 7.37	7.78	-0.41
235	8-10	1 13.1	17.0	13.05	0.23	1 12.9	16.8	12.85	0.02	1 12.82	12.83	-0.01
236	10	1 44.0	47.9	43.95	0.23	1 43.5	47.8	43.65	0.02	1 43.72	43.63	+0.09
237	10	1 47.2	51.2	47.20	0.24	1 47.2	51.2	47.20	0.02	1 46.96	47.18	-0.22
238	9-10	2 32.3	36.3	32.30	0.23	2 32.2	36.1	32.15	0.02	2 32.07	32.13	-0.06
239	9-10	2 47.0	50.7	46.85	0.23	2 46.7	50.7	46.70	0.02	2 46.62	46.68	-0.06
240	10	3 0.5	4.6	0.55	0.23	3 0.5	4.4	0.45	0.02	3 0.32	0.43	-0.11
241	10	3 12.9	16.8	12.85	0.22	3 12.5	16.7	12.60	0.01	3 12.63	12.59	+0.04
242	11	3 35.4	39.3	35.35	0.22	3 35.0	39.1	35.05	0.01	3 35.13	35.04	+0.09
243	11-12	4 12.5	....	12.50	0.23	4	16.7	12.70	0.02	4 12.27	12.68	-0.41
244	11	4 38.9	43.0	38.95	0.22	4 38.9	42.7	38.80	0.01	4 38.73	38.79	-0.06
245	10-11	4 50.4	54.3	50.35	0.22	4 50.3	54.3	50.30	0.01	4 50.13	50.29	-0.16
246	9-10	5 1.6	5.6	1.60	0.22	5 1.4	5.4	1.40	0.01	5 1.38	1.39	-0.01
247	11	5 19.9	24.0	19.95	0.22	.....	.....	.....	.....	5 19.73	.....	.....
248	10-11	5 37.2	41.3	37.25	0.23	5 37.0	41.0	37.00	0.01	5 37.02	36.99	+0.03
249	11	5 39.8	43.8	39.80	0.22	.....	.....	.....	.....	5 39.58	.....	.....
250	10-11	5	54.1	50.10	0.23	5 50.1	53.8	49.95	0.01	5 49.87	49.94	-0.07
251	11	6	36.2	32.20	0.22	6 32.3	36.2	32.25	-0.01	6 31.98	32.24	-0.26
252	11	6 58.0	61.9	57.95	0.22	6 57.9	61.8	57.85	0.00	6 57.73	57.85	-0.12
253	10	7 24.2	28.2	24.20	0.22	7 24.0	27.9	23.95	0.00	7 23.98	23.95	+0.03
254	11	7 29.2	33.2	29.20	0.22	7 29.0	32.8	28.90	0.00	7 28.98	28.90	+0.08
255	11	7 49.7	53.7	49.70	0.22	7 49.5	53.7	49.60	0.00	7 49.48	49.60	-0.12
256	10-11	7 58.8	62.6	58.70	0.22	7 58.8	62.7	58.75	0.00	7 58.48	58.75	-0.27
257	9-10	8 1.1	5.3	1.20	0.22	8 0.9	4.8	0.85	0.00	8 0.98	0.85	+0.13
258	11	8 25.7	....	25.70	0.22	.....	.....	.....	.....	8 25.48	.....	.....
259	10-11	9 4.7	1.0	4.70	0.22	9 4.4	8.3	4.35	0.00	9 4.48	4.35	+0.13
260	10	9 5.8	9.5	5.65	0.22	9 5.4	9.4	5.40	0.00	9 5.43	5.40	+0.03
261	10-11	9 26.7	30.6	26.65	0.21	9 26.4	30.5	26.45	+0.01	9 26.44	26.46	-0.02
262	11-12	.....	.....	.....	.....	10 12.1	15.7	11.90	0.00	10 11.90	.....	.....
263	11	10 35.5	39.3	35.40	0.21	.....	.....	.....	.....	10 35.19	.....	.....
264	10	10 48.7	52.8	48.75	0.22	10 48.5	52.4	48.45	0.00	10 48.53	48.45	+0.08
265	9-10	11 10.4	14.3	10.35	0.21	11 10.1	14.1	10.10	0.01	11 10.14	10.11	+0.03
266	9-10	11 12.0	15.9	11.95	0.21	11 11.7	15.7	11.70	0.01	11 11.74	11.71	+0.03
267	10-11	11 44.4	48.4	44.40	0.21	11 44.2	48.1	44.15	0.01	11 44.19	44.16	+0.03
268	9-10	12 4.2	8.1	4.15	0.21	12 4.1	7.9	4.00	0.01	12 3.94	4.01	-0.07
269	9-10	12 27.4	31.4	27.40	0.20	12 27.2	31.3	27.25	0.02	12 27.20	27.27	-0.07
270	9-10	5 12 36.0	40.0	36.00	-0.21	5 12 35.7	39.7	35.70	+0.01	5 12 35.79	35.71	+0.08

A.R. ^{h.}3 ^{m.}29 to ^{m.}5 ^{h.}32.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
226	' "	"	+ 4 13	- 5.8	+ 0 44	7.2	"	
227	+ 2 57	-12.3	2 51	5.6	0 42 44.7	45.4	- 0.7	
228	9 50	13.3	....	...	0 49 36.7	....	...
229	8 19	13.0	8 15	6.3	0 48 6.0	8.7	- 2.7	
230	....	....	1 6	5.2	0 41	0.8	...	
231	1 9	11.9	....	...	0 40 57.1	....	...
232	6 27	12.6	....	...	0 46 14.4	....	...
233	3 56	12.2	3 49	5.5	0 43 43.8	43.5	+ 0.3	
234	2 42	12.0	2 34	5.3	0 42 30.0	28.7	+ 1.3	
235	5 35	12.4	5 27	5.7	0 45 22.6	21.3	+ 1.3	
236	7 10	12.6	7 3	5.9	0 46 57.4	57.1	+ 0.3	
237	10 21	13.0	10 16	6.3	0 50 8.0	9.7	+ 1.7	
238	8 57	12.6	8 49	6.0	0 48 44.4	43.0	+ 1.4	
239	10 18	12.8	10 14	6.2	0 50 5.2	8.8	- 3.6	
240	+ 6 22	12.2	+ 6 17	5.6	0 46 9.8	11.4	- 1.6	
241	- 0 1	11.3	- 0 6	4.7	0 39 47.7	49.3	- 1.6	
242	+ 1 33	11.5	+ 0 22	...	0 41 21.5	17.3	+ 4.2	
243	8 38	12.4	8 30	6.0	0 48 25.6	24.0	+ 1.6	
244	3 22	11.6	3 15	5.0	0 43 10.4	10.0	+ 0.4	
245	4 0	11.6	3 53	5.1	0 43 48.4	47.9	+ 0.5	
246	2 36	11.4	2 26	4.8	0 42 24.6	21.2	+ 3.4	
247	2 30	11.3	....	...	0 42 18.7	....	...
248	7 30	12.0	7 29	5.5	0 47 18.0	23.5	- 5.5	
249	1 12	11.1	....	...	0 41 0.9	....	...
250	7 57	12.0	7 50	5.5	0 47 45.0	44.5	+ 0.5	
251	6 13	11.7	6 6	5.2	0 46 1.3	0.8	+ 0.5	
252	1 52	11.0	2 43	4.7	0 41 41.0	38.3	+ 2.7	
253	6 56	11.7	6 49	5.2	0 46 44.3	43.8	+ 0.5	
254	6 27	11.6	6 18	5.1	0 46 15.4	12.9	+ 2.5	
255	3 23	11.1	3 14	4.6	0 43 11.9	9.4	+ 2.5	
256	4 47	11.3	4 39	4.7	0 44 35.7	34.3	+ 1.5	
257	7 18	11.6	7 12	5.1	0 47 6.4	6.9	- 0.5	
258	3 45	11.1	....	...	0 43 33.9	....	...
259	9 6	11.7	8 58	5.3	0 48 54.3	52.7	+ 1.6	
260	8 2	11.6	7 53	5.1	0 47 50.6	47.9	+ 2.7	
261	0 47	10.5	0 44	4.1	0 40 36.5	39.9	- 3.4	
262	....	....	5 37	4.6	0 45	32.4	...	
263	1 31	10.4	....	...	0 41 20.6	....	...
264	7 50	11.3	7 44	4.9	0 47 38.7	39.1	- 0.4	
265	6 53	11.1	6 48	4.7	0 46 41.9	43.3	- 1.4	
266	3 2	10.5	2 54	4.2	0 42 51.5	49.8	+ 1.7	
267	6 57	11.0	6 51	4.7	0 46 46.0	46.3	- 0.3	
268	4 14	10.6	4 6	4.2	0 44 3.4	1.8	+ 1.6	
269	1 30	10.1	1 22	3.8	0 41 19.9	18.2	+ 1.7	
270	+ 4 34	-10.5	+ 4 28	- 4.2	+ 0 44 23.5	23.8	- 0.3	

ZONE OBSERVATIONS.

A.R. $\overset{h.}{3} \overset{m.}{29}$ to $\overset{h.}{5} \overset{m.}{32}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 157.					ZONE 158.					MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.		Zone 158.			
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.			
226	..	4 59	....	17.0	13.00	-0.24	4 59	13.0	16.8	12.90	-0.03	4 59	12.76	12.87	-0.11	
227	10	59	20.5	24.5	20.50	0.23	4 59	....	24.4	20.40	0.03	59	20.27	20.37	-0.10	
228	11	4 59	....	26.3	22.30	0.24	.....	.....	.....	.....	.....	4 59	22.06	.....	....
229	8-9	5 0	4.5	8.5	4.50	0.24	5 0	4.3	8.2	4.25	0.03	5 0	4.26	4.22	+0.04		
230	..	.....	.....	.....	.....	.....	0	15.1	19.2	15.15	0.02	0	.....	15.13	....	
231	9-10	0	22.7	....	22.70	0.23	.....	.....	.....	.....	.....	0	22.47	.....	....
232	10-11	0	44.3	48.3	44.30	0.23	0	43.9	47.9	43.90	0.02	0	44.07	43.88	+0.19		
233	10	0	46.4	50.4	46.40	0.23	.....	.....	.....	.....	.....	0	46.17	.....	....
234	11-12	1	7.6	....	7.60	0.23	1	7.8	11.8	7.80	0.02	1	7.37	7.78	-0.41	
235	8-10	1	13.1	17.0	13.05	0.23	1	12.9	16.8	12.85	0.02	1	12.82	12.83	-0.01		
236	10	1	44.0	47.9	43.95	0.23	1	43.5	47.8	43.65	0.02	1	43.72	43.63	+0.09		
237	10	1	47.2	51.2	47.20	0.24	1	47.2	51.2	47.20	0.02	1	46.96	47.18	-0.22		
238	9-10	2	32.3	36.3	32.30	0.23	2	32.2	36.1	32.15	0.02	2	32.07	32.13	-0.06		
239	9-10	2	47.0	50.7	46.85	0.23	2	46.7	50.7	46.70	0.02	2	46.62	46.68	-0.06		
240	10	3	0.5	4.6	0.55	0.23	3	0.5	4.4	0.45	0.02	3	0.32	0.43	-0.11		
241	10	3	12.9	16.8	12.85	0.22	3	12.5	16.7	12.60	0.01	3	12.63	12.59	+0.04		
242	11	3	35.4	39.3	35.35	0.22	3	35.0	39.1	35.05	0.01	3	35.13	35.04	+0.09		
243	11-12	4	12.5	....	12.50	0.23	4	....	16.7	12.70	0.02	4	12.27	12.68	-0.41
244	11	4	38.9	43.0	38.95	0.22	4	38.9	42.7	38.80	0.01	4	38.73	38.79	-0.06		
245	10-11	4	50.4	54.3	50.35	0.22	4	50.3	54.3	50.30	0.01	4	50.13	50.29	-0.16		
246	9-10	5	1.6	5.6	1.60	0.22	5	1.4	5.4	1.40	0.01	5	1.38	1.39	-0.01		
247	11	5	19.9	24.0	19.95	0.22	.....	.....	.....	.....	.....	5	19.73	.....	....
248	10-11	5	37.2	41.3	37.25	0.23	5	37.0	41.0	37.00	0.01	5	37.02	36.99	+0.03		
249	11	5	39.8	43.8	39.80	0.22	.....	.....	.....	.....	.....	5	39.58	.....	....
250	10-11	5	....	54.1	50.10	0.23	5	50.1	53.8	49.95	0.01	5	49.87	49.94	-0.07	
251	11	6	....	36.2	32.20	0.22	6	32.3	36.2	32.25	-0.01	6	31.98	32.24	-0.26	
252	11	6	58.0	61.9	57.95	0.22	6	57.9	61.8	57.85	0.00	6	57.73	57.85	-0.12		
253	10	7	24.2	28.2	24.20	0.22	7	24.0	27.9	23.95	0.00	7	23.98	23.95	+0.03		
254	11	7	29.2	33.2	29.20	0.22	7	29.0	32.8	28.90	0.00	7	28.98	28.90	+0.08		
255	11	7	49.7	53.7	49.70	0.22	7	49.5	53.7	49.60	0.00	7	49.48	49.60	-0.12		
256	10-11	7	58.8	62.6	58.70	0.22	7	58.8	62.7	58.75	0.00	7	58.48	58.75	-0.27		
257	9-10	8	1.1	5.3	1.20	0.22	8	0.9	4.8	0.85	0.00	8	0.98	0.85	+0.13		
258	11	8	25.7	....	25.70	0.22	.....	.....	.....	.....	.....	8	25.48	.....	....
259	10-11	9	4.7	1.0	4.70	0.22	9	4.4	8.3	4.35	0.00	9	4.48	4.35	+0.13		
260	10	9	5.8	9.5	5.65	0.22	9	5.4	9.4	5.40	0.00	9	5.43	5.40	+0.03		
261	10-11	9	26.7	30.6	26.65	0.21	9	26.4	30.5	26.45	+0.01	9	26.44	26.46	-0.02		
262	11-12	.....	.....	.....	.....	.....	10	12.1	15.7	11.90	0.00	10	.....	11.90	....	
263	11	10	35.5	39.3	35.40	0.21	.....	.....	.....	.....	.....	10	35.19	.....	....
264	10	10	48.7	52.8	48.75	0.22	10	48.5	52.4	48.45	0.00	10	48.53	48.45	+0.08		
265	9-10	11	10.4	14.3	10.35	0.21	11	10.1	14.1	10.10	0.01	11	10.14	10.11	+0.03		
266	9-10	11	12.0	15.9	11.95	0.21	11	11.7	15.7	11.70	0.01	11	11.74	11.71	+0.03		
267	10-11	11	44.4	48.4	44.40	0.21	11	44.2	48.1	44.15	0.01	11	44.19	44.16	+0.03		
268	9-10	12	4.2	8.1	4.15	0.21	12	4.1	7.9	4.00	0.01	12	3.94	4.01	-0.07		
269	9-10	12	27.4	31.4	27.40	0.20	12	27.2	31.3	27.25	0.02	12	27.20	27.27	-0.07		
270	9-10	5	12	36.0	40.0	-0.21	5	12	35.7	39.7	35.70	+0.01	5	12	35.79	35.71	+0.08

Handwritten text, likely bleed-through from the reverse side of the page. The text is arranged in several lines and columns, though it is mostly illegible due to the quality of the scan. Some words are partially visible, such as "the" and "and".

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. ⁰+0 40 to ⁰0 50.

Number of the Star.	Magnitude.	ZONE 157.				ZONE 158.				MEAN RIGHT ASCENSION 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 157.	Zone 158.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
271	10	5 12 56.9	60.8	56.85	-0.20	5 12 56.5	60.5	56.50	+0.02	5 12 56.65	56.52	+0.13
272	9-10	13 13.2	17.0	13.10	0.21	13 13.0	16.9	12.95	0.01	13 12.89	12.96	-0.07
273	10	14 4.7	8.8	4.75	0.20	14 4.5	8.7	4.60	0.02	14 4.55	4.62	+0.07
274	11	14 12.2	16.1	12.15	0.20	14 12.1	15.9	12.00	0.02	14 11.95	12.02	-0.07
275	10	14 26.6	31.0	26.80	0.20	14 26.4	30.4	26.40	0.02	14 26.60	26.42	+0.18
276	11-12	14 53.8	57.5	53.65	0.20	14 53.4	57.2	53.30	0.02	14 53.45	53.32	+0.13
277	9-10	15 1.7	5.6	1.65	0.20	15 1.3	5.3	1.30	0.02	15 1.45	1.32	+0.13
278	9-11	15 40.3	44.3	40.30	0.20	15 40.3	44.2	40.25	0.02	15 40.10	40.27	-0.17
279	9-10	15 51.7	55.4	51.55	0.20	15 51.4	55.5	51.45	0.02	15 51.35	51.47	-0.12
280	9-10	16 3.0	7.0	3.00	0.20	16 2.8	6.8	2.80	0.02	16 2.80	2.82	-0.02
281	11	16	20.6	16.60	0.19	.....	.....	.....	.....	16 16.41	.....	.....
282	10-11	16	34.1	30.10	0.19	16	33.8	29.80	0.03	16 29.91	29.83	+0.08
283	9	16 39.0	42.8	38.90	0.19	16 38.7	42.3	38.50	0.03	16 38.71	38.53	+0.18
284	9-10	17 11.7	15.4	11.55	0.19	17 11.1	15.1	11.10	0.03	17 11.36	11.13	+0.23
285	11	17 46.7	.....	46.70	0.19	.....	.....	.....	.....	17 46.51	.....	.....
286	10-11	17 54.9	.....	54.90	0.19	17 54.4	.....	54.40	0.03	17 54.71	54.43	+0.28
287	9-10	17	58.6	54.60	0.19	17	58.4	54.40	0.03	17 54.41	54.43	-0.02
288	10-11	18	7.3	3.30	0.19	.....	.....	.....	.....	18 3.11	.....	.....
289	10	18 38.6	42.7	38.65	0.18	.....	.....	.....	.....	18 38.47	.....	.....
290	9-10	18 53.7	57.5	53.60	0.19	18 53.4	57.3	53.35	0.03	18 53.41	53.38	+0.03
291	10	19 7.9	11.9	7.90	0.18	19 7.3	11.5	7.40	0.04	19 7.72	7.44	-0.22
292	9-10	19 10.2	14.3	10.25	0.18	19 9.9	13.9	9.90	0.04	19 10.07	9.94	+0.13
293	10	19 15.0	18.9	14.95	0.19	19 14.9	18.5	14.70	0.04	19 14.76	14.74	+0.02
294	11	19 26.5	30.5	26.50	0.19	.....	.....	.....	.....	19 26.31	.....	.....
295	10	19 55.7	59.7	55.70	0.18	19 55.5	59.4	55.45	0.04	19 55.52	55.49	+0.03
296	..	20 25.0	.....	25.00	0.18	.....	.....	.....	.....	20 24.82	.....	.....
297	10	20	29.3	25.30	0.18	20 25.3	29.2	25.25	0.04	20 25.12	25.29	-0.17
298	9-10	20 45.6	49.6	45.60	0.18	20 45.5	49.3	45.40	0.04	20 45.42	45.44	-0.02
299	9-10	20 57.9	61.9	57.90	0.18	20 57.4	61.4	57.40	0.04	20 57.72	57.44	+0.28
300	10-11	21 11.1	15.1	11.10	0.19	21 10.9	14.9	10.90	0.04	21 10.91	10.94	-0.03
301	10-11	21 17.4	21.2	17.30	0.19	21 17.2	21.2	17.20	0.03	21 17.11	17.23	-0.12
302	10-11	21 41.2	45.2	41.20	0.18	21 41.1	44.8	40.95	0.04	21 41.02	40.99	+0.03
303	11	22 14.7	18.7	14.70	0.18	22 14.6	18.7	14.65	0.04	22 14.52	14.69	-0.17
304	10	22 17.9	21.8	17.85	0.18	22 17.5	21.5	17.50	0.05	22 17.67	17.55	+0.12
305	11	22 30.7	34.8	30.75	0.18	.....	.....	.....	.....	22 30.57	.....	.....
306	10-11	22 55.9	59.8	55.85	0.18	22 55.4	59.3	55.35	0.05	22 55.67	55.40	+0.27
307	11	23	10.0	6.00	0.18	23 5.5	9.5	5.50	0.05	23 5.82	5.55	+0.27
308	11	23 11.2	15.0	11.10	0.18	23 10.8	14.7	10.75	0.05	23 10.92	10.80	+0.12
309	10	23 17.3	21.1	17.20	0.17	23 16.9	21.0	16.95	0.05	23 17.03	17.00	+0.03
310	10-11	23 37.7	41.7	37.70	0.17	23 37.4	41.5	37.45	0.05	23 37.53	37.50	+0.03
311	10-11	24 0.3	4.2	0.25	0.18	24 0.2	3.9	0.05	0.05	24 0.07	0.10	-0.03
312	10-11	24 50.7	.....	50.70	0.17	24 50.1	54.3	50.20	0.05	24 50.53	50.25	+0.28
313	10	24 58.6	62.5	58.55	0.18	24 58.3	62.2	58.25	0.05	24 58.37	58.30	+0.07
314	10	25 0.5	4.5	0.50	0.17	.....	.....	.....	.....	25 0.33	.....	.....
315	9-10	5 25 59.1	63.1	59.10	-0.17	5 25 59.0	62.8	58.90	+0.06	5 25 58.93	58.96	-0.03

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
271	+ 0 16	- 9.9	+ 1 9	- 3.6	+ 0 40 6.1	5.4	+ 0.7	
272	10 9	11.2	10 4	4.9	0 49 57.8	59.1	- 1.3	
273	1 18	9.9	1 9	3.5	0 41 8.1	5.5	+ 2.6	
274	5 16	10.4	5 7	4.1	0 45 5.6	2.9	+ 2.7	
275	2 14	9.9	2 9	3.6	0 42 4.1	5.4	+ 1.3	
276	6 41	10.5	6 36	4.2	0 46 30.5	31.8	- 1.3	
277	9 28	10.9	9 21	4.6	0 49 17.1	16.4	+ 0.7	
278	7 55	10.6	7 49	4.3	0 47 44.4	44.7	- 0.3	
279	6 41	10.3	6 35	4.0	0 46 30.7	31.0	- 0.3	
280	5 26	10.2	5 18	3.9	0 45 15.8	14.1	+ 1.7	
281	3 33	9.9	....	...	0 43 23.1	....	...
282	0 36	9.4	0 30	3.1	0 40 26.6	26.9	- 0.3	
283	3 55	9.9	....	...	0 43 45.1	....	...
284	4 56	9.9	4 49	3.7	0 44 46.1	45.3	+ 0.8	
285	6 58	10.1	....	...	0 46 47.9	....	...
286	6 36	10.0	6 29	3.8	0 46 26.0	25.2	+ 0.8	
287	8 26	10.3	8 19	4.0	0 48 15.7	15.0	+ 0.7	
288	9 17	10.4	....	...	0 49 6.6	....	...
289	0 20	9.1	0 11	2.8	0 40 10.9	8.2	+ 2.7	
290	2 37	9.3	2 31	3.1	0 42 27.7	27.9	- 0.2	
291	0 36	9.0	0 29	2.8	0 40 27.0	26.2	+ 0.8	
292	0 32	9.0	0 24	2.8	0 40 23.0	21.2	+ 1.8	
293	3 1	9.3	1 55	3.1	0 42 51.7	51.9	- 0.2	
294	3 45	9.4	....	...	0 43 35.6	....	...
295	0 20	8.9	0 13	2.6	0 40 11.1	8.4	+ 2.7	
296	3 3	9.2	....	...	0 42 53.8	....	...
297	4 8	9.3	3 59	3.1	0 43 58.7	55.9	+ 2.8	
298	4 2	9.2	3 56	3.1	0 43 52.8	52.9	- 0.1	
299	0 13	8.7	0 6	2.5	0 40 4.3	3.5	+ 0.8	
300	8 7	9.7	8 1	3.6	0 47 57.3	57.4	- 0.1	
301	10 18	10.0	10 9	3.9	0 50 8.0	5.1	+ 2.9	
302	2 52	8.9	2 45	2.8	0 42 43.1	42.2	+ 0.9	
303	4 11	9.1	4 8	2.9	0 44 1.9	5.1	- 3.2	
304	2 47	8.8	2 39	2.7	0 42 38.2	36.3	+ 1.9	
305	3 6	8.9	....	...	0 42 57.1	....	...
306	6 11	9.2	6 8	3.1	0 46 1.8	4.9	+ 3.1	
307	1 51	8.6	1 46	2.5	0 41 42.4	43.5	+ 1.1	
308	1 40	8.5	1 34	2.4	0 41 31.5	31.6	+ 0.1	
309	0 37	8.4	0 19	2.3	0 40 28.6	16.7	+11.9	
310	0 42	8.4	0 36	2.3	0 40 33.6	33.7	- 0.1	
311	5 21	9.0	5 16	2.9	0 45 12.0	13.1	- 1.1	
312	4 31	8.7	4 23	2.6	0 44 22.3	20.4	+ 1.9	
313	7 29	9.1	7 24	3.0	0 47 19.9	21.0	- 1.1	Double.
314	1 30	8.3	....	...	0 41 21.7	....	...
315	+ 6 6	- 8.8	+ 5 57	- 2.7	+ 0 45 57.2	54.3	+ 2.9	

ZONE OBSERVATIONS.

A.R. $\overset{h.}{3} \overset{m.}{29}$ to $\overset{h.}{5} \overset{m.}{32}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 157.					ZONE 158.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 157.	Zone 158.		
316	11-12	<div><div>h.</div><div>m.</div><div>s.</div></div> <div>5 26 33.5</div>	<div><div>s.</div></div> <div>37.3</div>	<div><div>s.</div><div>s.</div></div> <div>33.40</div>	-0.17	<div><div>h.</div><div>m.</div><div>s.</div></div> <div>5 26 33.5</div>	<div><div>s.</div></div> <div>37.0</div>	<div><div>s.</div><div>s.</div></div> <div>33.25</div>	+0.06	<div><div>h.</div><div>m.</div><div>s.</div></div> <div>5 26 33.23</div>	<div><div>s.</div></div> <div>33.31</div>	-0.08	
317	10	<div><div>m.</div><div>s.</div></div> <div>26 35.1</div>	<div><div>s.</div></div> <div>39.1</div>	<div><div>s.</div><div>s.</div></div> <div>35.10</div>	0.18	<div><div>m.</div><div>s.</div></div> <div>26 35.0</div>	<div><div>s.</div></div> <div>38.9</div>	<div><div>s.</div><div>s.</div></div> <div>34.95</div>	0.06	<div><div>m.</div><div>s.</div></div> <div>26 34.92</div>	<div><div>s.</div></div> <div>35.01</div>	-0.09	
318	..	<div><div>m.</div><div>s.</div></div> <div>26 42.0</div>	<div><div>s.</div></div> <div>46.0</div>	<div><div>s.</div><div>s.</div></div> <div>42.00</div>	0.17	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>26 41.83</div>	<div><div>.....</div></div>	.....
319	10	<div><div>m.</div><div>s.</div></div> <div>27 60.0</div>	<div><div>s.</div></div> <div>63.9</div>	<div><div>s.</div><div>s.</div></div> <div>59.95</div>	0.17	<div><div>m.</div><div>s.</div></div> <div>26 59.8</div>	<div><div>s.</div></div> <div>62.8</div>	<div><div>s.</div><div>s.</div></div> <div>59.80</div>	0.06	<div><div>m.</div><div>s.</div></div> <div>26 59.78</div>	<div><div>s.</div></div> <div>59.86</div>	-0.08	
320	10	<div><div>m.</div><div>s.</div></div> <div>27 19.8</div>	<div><div>s.</div></div> <div>23.5</div>	<div><div>s.</div><div>s.</div></div> <div>19.65</div>	0.17	<div><div>m.</div><div>s.</div></div> <div>27</div>	<div><div>s.</div></div> <div>23.8</div>	<div><div>s.</div><div>s.</div></div> <div>19.80</div>	0.07	<div><div>m.</div><div>s.</div></div> <div>27 19.48</div>	<div><div>s.</div></div> <div>19.87</div>	-0.39	
321	11	<div><div>m.</div><div>s.</div></div> <div>27 33.6</div>	<div><div>s.</div></div> <div>37.7</div>	<div><div>s.</div><div>s.</div></div> <div>33.65</div>	0.17	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>27 33.48</div>	<div><div>.....</div></div>	.....
322	9-10	<div><div>m.</div><div>s.</div></div> <div>28 27.1</div>	<div><div>s.</div></div> <div>31.3</div>	<div><div>s.</div><div>s.</div></div> <div>27.20</div>	0.17	<div><div>m.</div><div>s.</div></div> <div>28 26.9</div>	<div><div>s.</div></div> <div>30.9</div>	<div><div>s.</div><div>s.</div></div> <div>26.90</div>	0.06	<div><div>m.</div><div>s.</div></div> <div>28 27.03</div>	<div><div>s.</div></div> <div>26.96</div>	+0.07	
323	11-12	<div><div>m.</div><div>s.</div></div> <div>29 24.5</div>	<div><div>s.</div></div> <div>28.0</div>	<div><div>s.</div><div>s.</div></div> <div>24.25</div>	0.17	<div><div>m.</div><div>s.</div></div> <div>29 24.1</div>	<div><div>s.</div></div> <div>27.8</div>	<div><div>s.</div><div>s.</div></div> <div>23.95</div>	0.07	<div><div>m.</div><div>s.</div></div> <div>29 24.08</div>	<div><div>s.</div></div> <div>24.02</div>	+0.06	
324	11-12	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>30 8.3</div>	<div><div>s.</div></div> <div>12.3</div>	<div><div>s.</div><div>s.</div></div> <div>8.30</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>30</div>	<div><div>s.</div></div> <div>8.38</div>	.....
325	10-11	<div><div>m.</div><div>s.</div></div> <div>30</div>	<div><div>s.</div></div> <div>13.8</div>	<div><div>s.</div><div>s.</div></div> <div>9.80</div>	0.17	<div><div>m.</div><div>s.</div></div> <div>30 9.7</div>	<div><div>s.</div></div> <div>13.6</div>	<div><div>s.</div><div>s.</div></div> <div>9.65</div>	0.07	<div><div>m.</div><div>s.</div></div> <div>30 9.63</div>	<div><div>s.</div></div> <div>9.72</div>	-0.09	
326	..	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>30 34.3</div>	<div><div>s.</div></div> <div>38.1</div>	<div><div>s.</div><div>s.</div></div> <div>34.20</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>30</div>	<div><div>s.</div></div> <div>34.28</div>	...
327	10-11	<div><div>m.</div><div>s.</div></div> <div>30 55.8</div>	<div><div>s.</div></div> <div>59.7</div>	<div><div>s.</div><div>s.</div></div> <div>55.75</div>	0.17	<div><div>m.</div><div>s.</div></div> <div>30 55.7</div>	<div><div>s.</div></div> <div>59.7</div>	<div><div>s.</div><div>s.</div></div> <div>55.70</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>30 55.58</div>	<div><div>s.</div></div> <div>55.78</div>	-0.20	
328	10-11	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>31 11.0</div>	<div><div>s.</div></div> <div>14.8</div>	<div><div>s.</div><div>s.</div></div> <div>10.90</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>31</div>	<div><div>s.</div></div> <div>10.98</div>	.....
329	10-11	<div><div>m.</div><div>s.</div></div> <div>31 31.6</div>	<div><div>s.</div></div> <div>35.6</div>	<div><div>s.</div><div>s.</div></div> <div>31.60</div>	0.16	<div><div>m.</div><div>s.</div></div> <div>31 31.4</div>	<div><div>s.</div></div> <div>35.2</div>	<div><div>s.</div><div>s.</div></div> <div>31.30</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>31 31.44</div>	<div><div>s.</div></div> <div>31.38</div>	+0.06	
330	11	<div><div>m.</div><div>s.</div></div> <div>5 31 47.2</div>	<div><div>s.</div></div> <div>51.5</div>	<div><div>s.</div><div>s.</div></div> <div>47.35</div>	-0.16	<div><div>m.</div><div>s.</div></div> <div>31 47.0</div>	<div><div>s.</div></div> <div>50.9</div>	<div><div>s.</div><div>s.</div></div> <div>46.95</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>31 47.19</div>	<div><div>s.</div></div> <div>47.03</div>	+0.16	
331	10	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>31 56.2</div>	<div><div>s.</div></div> <div>60.3</div>	<div><div>s.</div><div>s.</div></div> <div>56.25</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>31</div>	<div><div>s.</div></div> <div>56.33</div>	.....
332	8-9	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>32 25.2</div>	<div><div>s.</div></div> <div>29.2</div>	<div><div>s.</div><div>s.</div></div> <div>25.20</div>	0.08	<div><div>m.</div><div>s.</div></div> <div>32</div>	<div><div>s.</div></div> <div>25.28</div>	.....
333	..	<div><div>.....</div></div>	<div><div>.....</div></div>	<div><div>.....</div></div>	.....	<div><div>m.</div><div>s.</div></div> <div>5 32</div>	<div><div>s.</div></div> <div>34.4</div>	<div><div>s.</div><div>s.</div></div> <div>30.40</div>	+0.08	<div><div>m.</div><div>s.</div></div> <div>5 32</div>	<div><div>s.</div></div> <div>30.48</div>	.....

A.R. ^{h.}3 ^{m.}29 to ^{h.}5 ^{m.}32.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 157.	d.	Zone 158.	d.	Zone 157.	Zone 158.		
316	+ 4 6	- 8.4	+ 3 59	- 2.4	+ 0 43 57.6	56.6	+ 1.0	Zone 157 erroneous in Declination.
317	9 45	9.2	9 40	3.2	0 49 35.8	36.8	- 1.0	
318	7 46	8.9	....	...	0 47 37.1	....	...
319	6 33	8.7	6 28	2.7	0 46 24.3	25.3	- 1.0	
320	0 12	7.7	0 12	1.7	0 40 4.3	10.3	- 6.0	
321	7 16	8.7	....	...	0 47 7.3	....	...
322	9 36	8.9	9 19	2.9	0 49 27.1	16.1	+11.0	
323	8 28	8.6	8 21	2.6	0 48 19.4	18.4	+ 1.0	
324	3 6	7.7	2 58	1.8	0 42 58.3	56.2	+ 2.1	
325	8 39	8.5	8 37	2.6	0 48 30.5	34.4	- 3.9	
326	....	....	4 1	1.9	0 43	59.1	...
327	4 37	7.8	4 30	1.9	0 44 29.2	28.1	+ 1.1	
328	5 10	7.8	5 7	2.0	0 45 2.2	5.0	- 2.8	
329	3 32	7.6	3 27	1.7	0 43 24.4	25.3	- 0.9	
330	1 47	7.3	1 40	1.3	0 41 39.7	38.7	+ 1.0	
331	2 24	....	....	...	0 .....	....	...
332	+ 5 21	- 7.5	5 16	1.9	0 45 13.5	14.1	- 0.6	
333	....	....	+ 9 42	- 2.5	+ 0 49	39.5	...

A.R. $5^{\text{h}} 28^{\text{m}}$ to $7^{\text{h}} 25^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 159.					ZONE 161.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 159.		Zone 161.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	
1	11	5 28 26.1	30.1	26.10	+0.90		5 28 25.9	30.2	26.05	+1.04		5 28 27.00	27.09	-0.09	
2	11-12	30 7.7	11.7	7.70	0.91		.....	.....	.....	.....		30 8.61	.....	.....
3	11	30 8.8	12.8	8.80	0.90		30 8.8	12.7	8.75	1.04		30 9.70	9.79	-0.09	
4	11-12	30 54.8	58.7	54.75	0.91		30 54.7	58.7	54.70	1.05		30 55.66	55.75	-0.09	
5	11-12	31 10.2	13.9	10.05	0.91		31 10.0	14.0	10.00	1.05		31 10.96	11.05	-0.09	
6	11	31 30.5	34.4	30.45	0.92		31 30.4	34.4	30.40	1.05		31 31.37	31.45	-0.08	
7	10	31 46.0	50.1	46.05	0.92		31 45.9	50.0	45.95	1.05		31 46.97	47.00	-0.03	
8	10-11	31 55.3	59.3	55.30	0.91		31 55.4	59.2	55.30	1.05		31 56.21	56.35	-0.14	
9	11	32 8.1	.....	.....	0.92		.....	.....	.....	.....		32 9.02	.....	.....
10	8	32 24.4	28.4	24.40	0.92		32 24.4	28.3	24.35	1.05		32 25.32	25.40	-0.08	
11	9	32 29.7	33.5	29.60	0.91		32 29.7	33.4	29.55	1.04		32 30.51	30.59	-0.08	
12	11-12	33 56.8	60.7	56.75	0.92		33 56.7	60.5	56.60	1.05		33 57.67	57.65	+0.02	
13	10	34 25.3	29.2	25.25	0.92		34 25.2	29.0	25.10	1.05		34 26.17	26.15	+0.02	
14	10	34 47.2	51.0	47.10	0.92		34 47.3	51.2	47.25	1.04		34 48.02	48.29	-0.27	
15	11	35 58.7	62.5	58.60	0.93		35 58.5	.....	58.50	1.05		35 59.53	59.55	-0.02	
16	11	36 2.0	6.3	2.15	0.93		36 2.0	5.9	1.95	1.05		36 3.08	3.00	+0.08	
17	9-10	36 8.1	12.1	8.10	0.92		36 8.0	12.0	8.00	1.04		36 9.02	9.04	-0.02	
18	9	36 25.5	29.5	25.50	0.94		36 25.4	29.4	25.40	1.05		36 26.44	26.45	-0.01	
19	11	36 51.1	55.2	51.15	0.94		36 51.1	55.0	51.05	1.05		36 52.09	52.10	-0.01	
20	9-10	37 26.3	30.3	26.30	0.93		37 26.1	30.1	26.10	1.04		37 27.23	27.14	+0.09	
21	10-12	37 49.8	53.8	49.80	0.93		37 49.8	53.8	49.80	1.04		37 50.73	50.84	-0.09	
22	11	38 22.5	26.6	22.55	0.94		38 22.5	26.5	22.50	1.05		38 23.49	23.55	-0.06	
23	11	39 10.0	14.0	10.00	0.95		39	14.3	10.30	1.05		39 10.95	11.35	-0.40	
24	9-10	40 54.3	58.3	54.30	0.94		40 54.4	58.2	54.30	1.04		40 55.24	55.34	-0.10	
25	10-11	41 9.6	13.5	9.55	0.95		41 9.7	13.5	9.60	1.05		41 10.50	10.65	-0.15	
26	10	41 26.0	30.0	26.00	0.94		41 26.0	.....	26.00	1.03		41 26.94	27.03	-0.09	
27	8-9	41 32.7	36.7	32.70	0.95		41 32.7	36.7	32.70	1.05		41 33.65	33.75	-0.10	
28	11-12	42 21.8	25.8	21.80	0.95		.....	.....	.....	.....		42 22.75	.....	.....
29	11	43 3.1	7.1	3.10	0.94		.....	.....	.....	.....		43 4.04	.....	.....
30	10-11	43 17.2	21.1	17.15	0.96		43 17.4	21.2	17.30	1.04		43 18.11	18.34	-0.23	
31	10-11	43 50.8	54.8	50.80	0.96		43 50.7	54.4	50.55	1.04		43 51.76	51.59	+0.17	
32	10	44 49.4	53.4	49.40	0.96		44 49.4	53.8	49.60	1.03		44 50.36	50.63	-0.27	
33	9-10	45 14.6	18.7	14.65	0.96		45 14.6	18.4	14.50	1.03		45 15.61	15.53	+0.08	
34	9-10	45 54.8	58.7	54.75	0.96		45 54.6	58.7	54.65	1.03		45 55.71	55.68	+0.03	
35	9-10	46 1.6	5.4	1.50	0.96		46 1.4	5.3	1.35	1.03		46 2.46	2.38	+0.08	
36	9	46 13.7	17.6	13.65	0.96		46 13.5	17.5	13.50	1.03		46 14.61	14.53	+0.08	
37	11	46 35.9	39.9	35.90	0.95		.....	.....	.....	.....		46 36.85	.....	.....
38	9	47 31.6	35.7	31.65	0.95		47 31.7	35.5	31.60	1.01		47 32.60	32.61	-0.01	
39	9-10	47 39.7	43.7	39.70	0.97		47 39.6	43.5	39.55	1.03		47 40.67	40.58	+0.09	
40	9-10	48 4.3	8.5	4.40	0.95		48 4.4	8.3	4.35	1.02		48 5.35	5.37	-0.02	
41	9-10	48 15.9	19.9	15.90	0.97		48 15.8	19.6	15.70	1.03		48 16.87	16.73	+0.14	
42	8	48 43.6	47.6	43.60	0.96		48 43.7	47.5	43.60	1.02		48 44.56	44.62	-0.06	
43	10	48 45.3	49.2	45.25	0.97		48 45.3	49.1	45.20	1.02		48 46.22	46.22	0.00	
44	9-10	49 14.0	17.9	13.95	0.97		49 14.0	17.8	13.90	1.02		49 14.92	14.92	0.00	
45	11-12	5 49 52.3	56.1	52.20	+0.98		5 49 52.1	56.1	52.10	+1.03		5 49 53.18	53.13	+0.05	

A.R. $\overset{h.}{5} \overset{m.}{28}$ to $\overset{h.}{7} \overset{m.}{25}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number.	MICROMETER READINGS				MEAN DECLINATION. 1860.0		Difference	REMARKS.
	Zone 159.	d.	Zone 161.	d.	Zone 159.	Zone 161.		
1	+ 9 16	+ 2.6	+ 9 15	+ 2.2	+ 0 49 18.6	17.2	+ 1.4	Bright moonlight.
2	2 54	3.4	....	...	0 42 57.4	....	...
3	8 38	2.6	8 36	2.4	0 48 40.6	38.4	+ 2.2	
4	4 30	3.2	4 29	3.3	0 44 33.2	32.3	+ 0.9	
5	5 3	3.1	5 1	3.2	0 45 6.1	4.2	+ 1.9	
6	3 22	3.4	3 21	3.5	0 43 25.4	24.5	+ 0.9	
7	1 26	3.7	1 36	3.9	0 41 29.7	39.9	-10.2	Zone 159 erroneous.
8	5 55	3.0	5 57	3.0	0 45 58.0	60.0	- 2.0	
9	2 8	3.6	....	...	0 42 11.6	....	...
10	5 12	3.1	5 12	3.1	0 45 15.1	15.1	0.0	
11	9 38	2.4	9 38	2.3	0 49 40.4	40.3	+ 0.1	
12	3 19	3.4	3 18	3.5	0 43 22.4	21.5	+ 0.9	
13	4 33	3.2	4 33	3.5	0 44 36.2	36.5	+ 1.7	
14	7 37	2.7	7 38	2.9	0 47 39.7	40.9	- 1.2	
15	3 30	3.3	3 28	3.8	0 43 33.3	31.8	+ 1.5	
16	2 49	3.4	2 49	3.9	0 42 52.4	52.9	- 0.5	
17	8 58	2.5	8 57	2.6	0 48 60.5	59.6	+ 0.9	
18	1 9	3.7	1 8	4.3	0 41 12.7	12.3	+ 0.4	
19	0 17	3.8	0 16	4.5	0 40 20.8	20.5	+ 0.3	
20	7 25	2.7	7 25	3.0	0 47 27.7	28.0	- 0.3	
21	5 29	3.0	5 28	3.6	0 45 32.0	31.6	+ 0.4	
22	2 36	3.4	2 34	4.1	0 42 39.4	37.1	+ 2.3	
23	1 28	3.6	1 28	4.3	0 41 31.6	32.3	- 0.7	
24	6 18	2.9	6 17	3.4	0 46 20.9	20.4	+ 0.5	
25	2 12	3.5	2 13	4.3	0 42 15.5	17.3	- 1.8	
26	6 26	2.8	6 25	3.5	0 46 28.8	28.5	+ 0.3	
27	0 28	3.8	0 29	4.7	0 40 31.8	33.7	- 1.9	
28	3 41	3.3	....	...	0 43 44.3	....	...
29	8 32	3.6	....	...	0 48 35.6	....	...
30	1 26	3.6	1 29	4.5	0 41 29.6	33.5	- 3.9	
31	0 37	3.8	0 44	4.8	0 40 40.8	48.8	- 8.0	
32	3 19	3.2	3 20	4.3	0 43 22.2	24.3	- 2.1	
33	2 48	3.3	2 51	4.4	0 42 51.3	55.4	- 4.1	
34	5 22	3.0	5 22	3.9	0 45 25.0	25.9	- 0.9	
35	6 8	2.9	6 9	3.8	0 46 10.9	12.8	- 1.9	
36	4 40	3.0	4 41	4.2	0 44 43.0	45.2	- 2.2	
37	9 31	2.2	....	...	0 49 33.2	....	...
38	10 22	2.2	10 11	3.0	0 50 24.2	14.0	+10.2	
39	0 49	3.7	0 48	5.0	0 40 52.7	53.0	- 0.3	
40	9 38	2.3	9 37	3.2	0 49 40.3	40.2	+ 0.1	
41	1 45	3.5	1 46	4.8	0 41 48.5	50.8	- 2.3	
42	8 37	2.4	8 36	3.4	0 48 39.4	39.4	0.0	
43	4 29	3.0	4 28	4.3	0 44 32.0	32.3	- 0.3	
44	4 50	3.0	4 52	4.2	0 44 53.0	56.2	- 3.2	
45	+ 2 13	+ 3.4	+ 2 12	+ 4.8	+ 0 42 16.4	16.8	- 0.4	

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. ⁰+0 40 to ⁰0 50.

Number of the Star.	Magnitude.	ZONE 159.					ZONE 161.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 159.	Zone 161.				
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.		
46	11	5 50 12.4	16.4	12.40	+0.98	5 50 12.3	16.4	12.35	+1.03	5 50 13.38	13.38	0.00			
47	10-11	50 21.3	25.3	21.30	0.98	50 21.2	25.3	21.25	1.03	50 22.28	22.28	0.00			
48	9-10	50 50.0	54.0	50.00	0.96	50 49.8	53.8	49.80	1.01	50 50.96	50.81	+0.15			
49	10-11	51 20.1	24.2	20.15	0.97	51 20.4	24.2	20.30	1.01	51 21.12	21.31	-0.19			
50	11-12	51	27.4	23.40	0.97	51 23.4	27.3	23.35	1.01	51 24.37	24.36	+0.01			
51	10-11	52 10.8	14.7	10.75	0.97	52 10.7	14.7	10.70	1.02	52 11.72	11.72	0.00			
52	9-10	52 44.6	48.6	44.60	0.98	52 44.6	48.6	44.60	1.02	52 45.58	45.62	-0.04			
53	11-11	52 58.8	63.0	58.90	0.97	52 58.9	63.1	59.00	1.01	52 59.87	60.01	-0.14			
54	11	53 36.1	39.8	35.95	0.98	53 36.0	39.9	35.95	1.01	53 36.93	36.96	-0.03			
55	9-10	54 7.6	11.8	7.70	0.98	54 7.7	11.7	7.70	1.02	54 8.68	8.72	-0.04			
56	10	54 22.8	26.8	22.80	0.98	54 22.7	26.8	22.75	1.01	54 23.78	23.76	+0.02			
57	10	55 7.4	11.2	7.30	0.99	55 7.3	11.2	7.25	1.02	55 8.29	8.27	+0.02			
58	9-10	55 35.1	39.1	35.10	0.98	55 35.0	39.0	35.00	1.02	55 36.08	36.02	+0.06			
59	10-11	56 6.7	10.7	6.70	0.99	56 6.6	10.5	6.55	1.02	56 7.69	7.57	+0.12			
60	10	5 56 29.9	33.9	29.90	0.99	56 29.8	33.8	29.80	1.02	56 30.89	30.82	+0.07			
61	....	.....	.....	.....	....	56 56.8	60.8	56.80	1.02	56	57.82	....		
62	....	.....	.....	.....	....	58 31.7	35.6	31.65	1.01	58	32.66	....		
63	....	.....	.....	.....	....	58 53.4	57.4	53.40	1.00	58	54.40	....		
64	....	.....	.....	.....	....	59	33.5	29.50	1.02	59	30.52	....		
65	....	.....	.....	.....	....	59 49.2	53.2	49.20	1.00	59	50.20	....		
66	....	.....	.....	.....	....	5 59 52.4	56.4	52.40	1.01	5 59	53.41	....		
67	....	.....	.....	.....	....	6 0 5.0	9.2	5.10	1.01	6 0	6.11	....		
68	....	.....	.....	.....	....	0 55.1	59.1	55.10	1.01	0	56.11	....		
69	9-10	6 1 19.2	23.1	19.15	0.99	1 19.1	23.0	19.05	1.00	1 20.14	20.05	+0.09			
70	9-10	1 41.9	45.9	41.90	0.99	1 42.0	45.9	41.95	1.00	1 42.89	42.95	-0.06			
71	10	1 55.4	59.3	55.35	0.99	1 55.5	59.5	55.50	1.01	1 56.34	56.51	-0.17			
72	10	1	63.6	59.60	0.99	.....	.....	.....	....	2 0.59	.....	....	
73	9-10	2 55.2	59.0	55.10	1.00	2 55.1	59.1	55.10	1.01	2 56.10	56.11	-0.01			
74	10	2	62.8	58.80	1.00	2	62.9	58.90	1.01	2 59.80	59.91	-0.11			
75	9-10	3 38.0	41.9	37.95	1.00	3 38.1	42.0	38.05	1.01	3 38.95	39.06	-0.11			
76	10-11	4 3.9	8.0	3.95	1.00	4 4.0	8.0	4.00	1.00	4 4.95	5.00	-0.05			
77	9	4 38.9	42.8	38.85	1.00	4 38.9	42.8	38.85	1.00	4 39.85	39.85	0.00			
78	10	5 39.7	43.7	39.70	1.00	5 39.8	....	39.80	1.01	5 40.70	40.81	-0.11		
79	9-10	5 45.3	49.3	45.30	1.00	5 45.3	49.4	45.35	1.00	5 46.30	46.35	-0.05			
80	10	.....	.....	.....	....	5 48.3	52.1	48.20	1.01	5	49.21	....		
81	10	6 2.0	5.9	1.95	1.01	.....	.....	.....	....	6 2.96	.....	....	
82	10-11	6 18.0	21.7	17.85	1.01	6 18.1	22.1	18.10	1.01	6 18.86	19.11	-0.25			
83	....	.....	.....	.....	1.02	6 41.9	45.8	41.85	1.01	6	42.86	....		
84	10	6 58.5	62.6	58.55	1.01	6 58.6	62.6	58.60	1.01	6 59.56	59.61	-0.05			
85	10	7 14.2	18.3	14.25	1.01	7 14.3	18.4	14.35	1.01	7 15.26	15.36	-0.10			
86	9-10	7 17.8	21.7	17.75	1.01	7	22.0	18.00	1.00	7 18.76	19.00	-0.24			
87	10-11	7	47.2	43.20	1.01	7 43.4	47.2	43.30	1.00	7 44.21	44.30	-0.09			
88	9-10	8 13.5	17.2	13.35	1.01	8 13.6	17.6	13.60	1.00	8 14.36	14.60	-0.24			
89	10	8 38.4	42.6	38.50	1.01	8 38.8	42.8	38.80	1.00	8 39.51	39.80	-0.29			
90	10	6 8 54.0	58.1	54.05	+1.02	6 8 54.1	58.2	54.15	+1.00	6 8 55.07	55.15	-0.08			

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 159.	d.	Zone 161.	d.	Zone 159.	Zone 161.		
46	+ 2 7	+ 3.4	+ 2 7	+ 4.9	+ 0 42 10.4	11.9	- 1.5	
47	2 57	3.3	2 58	4.7	0 43 0.3	2.7	- 2.4	
48	9 24	2.4	9 23	3.4	0 49 26.4	26.4	0.0	
49	9 39	2.4	9 38	3.4	0 49 41.4	41.4	0.0	
50	7 28	2.6	7 22	3.9	0 47 30.6	25.9	+ 4.7	
51	6 23	2.8	6 19	4.1	0 46 25.8	23.1	+ 2.7	
52	2 5	3.4	2 5	5.0	0 42 8.4	10.0	- 1.6	
53	6 16	2.8	6 15	4.2	0 46 18.8	19.2	- 0.4	
54	5 36	2.9	5 32	4.3	0 45 33.9	36.3	+ 2.6	
55	3 46	3.1	3 45	4.8	0 43 49.1	49.8	- 0.7	
56	6 52	2.7	6 52	4.1	0 46 54.7	56.1	- 1.4	
57	0 49	3.5	0 49	5.4	0 40 52.5	54.4	- 1.9	
58	3 28	3.2	3 27	4.9	0 43 31.2	31.9	- 0.7	
59	1 1	3.5	1 2	5.4	0 41 4.5	7.4	- 2.9	
60	2 26	3.3	2 27	5.2	0 42 29.3	32.2	- 2.9	
61	....	...	1 10	5.5	0 41	15.5	...	
62	....	...	7 45	4.2	0 47	49.2	...	
63	....	...	9 31	3.8	0 49	34.8	...	
64	....	...	1 18	5.6	0 41	23.6	...	
65	....	...	9 36	3.9	0 49	39.9	...	
66	....	...	7 31	4.3	0 47	35.3	...	
67	....	...	3 32	5.2	0 43	37.2	...	
68	....	...	3 32	5.2	0 43	37.2	...	
69	9 38	2.3	9 38	3.9	0 49 40.3	41.9	- 1.6	
70	7 6	2.6	7 6	4.5	0 47 8.6	10.5	- 1.9	
71	2 2	3.3	2 3	5.6	0 42 5.3	8.6	- 3.3	
72	9 4	2.3	....	...	0 49 6.3	....	...
73	3 58	3.0	3 56	5.2	0 44 1.0	1.2	- 0.2	
74	3 9	3.1	3 6	5.5	0 43 12.1	11.5	+ 0.6	
75	2 58	3.1	2 55	5.5	0 43 1.1	0.5	+ 0.6	
76	7 54	2.4	7 51	4.5	0 47 56.4	55.5	+ 0.9	
77	6 42	2.6	6 43	4.8	0 46 44.6	47.8	- 3.2	
78	4 3	3.0	4 2	5.4	0 44 6.0	7.4	- 1.4	
79	7 18	2.5	7 18	4.7	0 47 20.5	22.7	- 2.2	
80	0 38	3.5	0 38	6.1	0 40 41.5	44.1	- 2.6	
81	3 2	3.1	....	...	0 43 5.1	....	...
82	3 1	3.1	2 58	5.6	0 43 4.1	3.6	+ 0.5	
83	....	...	0 18	6.3	0 40	24.3	...	
84	2 52	3.1	2 51	5.7	0 42 55.1	56.7	- 1.6	
85	2 41	3.1	2 41	5.8	0 42 44.1	46.8	- 2.7	
86	4 38	2.9	4 36	5.4	0 44 40.9	41.4	- 0.5	
87	6 40	2.6	6 38	5.0	0 46 42.6	43.0	- 0.4	
88	8 26	2.3	8 23	4.6	0 48 28.3	27.6	+ 0.7	
89	6 18	2.6	6 16	5.1	0 46 20.6	21.1	- 0.5	
90	+ 3 29	+ 3.0	+ 3 27	+ 5.7	+ 0 43 32.0	32.7	- 0.7	

A.R. $\overset{h.}{5} \overset{m.}{28}$ to $\overset{h.}{7} \overset{m.}{25}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 159.				ZONE 161.				MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	First Wire.		Second Wire.	Mean red. to 1st Wire.	Zone 159.		Zone 161.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	
91	9-10	6 9 3.7	7.6	3.65	+1.02	6 9 3.8	7.8	3.80	+1.00	6 9 4.67	4.80	-0.13	
92	11	9 11.2	15.2	11.20	1.02	.....	.....	.....	.....	9 12.22	.....	.....
93	9-10	9	23.4	19.40	1.01	9 19.5	23.4	19.45	0.99	9 20.41	20.41	-0.03	
94	10	10 1.2	5.3	1.25	1.02	10 1.2	5.2	1.20	1.00	10 2.27	2.20	+0.07	
95	9-10	10 16.4	20.4	16.40	1.03	10 16.8	20.8	16.80	1.01	10 17.43	17.81	-0.38	
96	10	10 35.4	39.4	35.40	1.01	.....	.....	.....	.....	10 36.41	.....	.....
97	10-11	10 45.2	49.0	45.10	1.03	.....	.....	.....	.....	10 46.13	.....	.....
98	10-11	11 3.0	7.0	3.00	1.02	11 2.9	6.9	2.90	0.99	11 4.02	3.89	+0.13	
99	11-12	12 16.1	19.9	16.00	1.02	12 16.1	20.2	16.15	0.99	12 17.02	17.14	-0.12	
100	10-11	12 22.1	25.8	21.95	1.02	12	26.0	22.00	0.99	12 22.97	22.99	-0.02	
101	10-11	13 5.3	9.3	5.30	1.03	13 5.6	....	5.60	1.00	13 6.33	6.60	-0.27	
102	9	13 34.7	38.5	34.60	1.02	13 34.7	38.6	34.65	0.99	13 35.62	35.64	-0.02	
103	11	14 45.3	49.5	45.40	1.03	14 45.4	49.3	45.35	0.99	14 46.43	46.34	+0.09	
104	11	14 54.7	58.6	54.65	1.04	14 54.8	58.6	54.70	0.99	14 55.69	55.69	0.00	
105	11	15 43.5	47.6	43.55	1.04	15 43.8	....	43.80	0.99	15 44.59	44.79	-0.20	
106	10	15	51.2	47.20	1.03	15 47.4	51.6	47.50	0.98	15 48.23	48.48	-0.25	
107	10-11	.....	.....	.....	.....	17 5.7	9.6	5.65	0.98	17	6.63	.....
108	..	.....	.....	.....	.....	17 38.7	42.9	38.80	0.99	17	39.79	.....
109	10	.....	.....	.....	.....	17 50.7	....	50.70	0.99	17	51.69	.....
110	9-10	17 54.9	58.8	54.85	1.05	17 54.9	58.9	54.90	0.99	17 55.90	55.89	+0.01	
111	10	19 15.2	19.2	15.20	1.05	19 15.2	19.2	15.20	0.98	19 16.25	16.18	+0.07	
112	9-10	.....	.....	.....	.....	19 34.9	38.9	34.90	0.98	19	35.88	.....
113	8-9	19 46.8	50.7	46.75	1.04	19 46.7	50.8	46.75	0.97	19 47.79	47.72	+0.07	
114	..	20 32.8	36.7	32.75	1.05	.....	.....	.....	.....	20 33.80	.....	.....
115	..	20 34.9	39.1	35.00	1.05	.....	.....	.....	.....	20 36.05	.....	.....
116	10	21 7.8	11.8	7.80	1.05	21 7.9	11.7	7.80	0.98	21 8.85	8.78	+0.07	
117	10-11	21	26.1	22.10	1.06	21 22.1	....	22.10	0.98	21 23.16	23.08	+0.08	
118	10	21 27.4	31.5	27.45	1.05	21 27.4	31.5	27.45	0.98	21 28.50	28.43	+0.07	
119	..	21 39.3	....	39.30	1.05	21 39.6	....	39.60	0.98	21 40.35	40.58	-0.23	
120	9-10	21 50.4	54.4	50.40	1.05	21 50.4	54.5	50.45	0.97	21 51.45	51.42	+0.03	
121	9-10	22 0.6	4.6	0.60	1.05	22 0.8	4.8	0.80	0.97	22 1.65	1.77	-0.12	
122	..	22	9.4	5.40	1.06	22	9.5	5.50	0.98	22 6.46	6.48	-0.02	
123	9-10	22 53.9	57.7	53.80	1.05	22 53.9	57.9	53.90	0.97	22 54.85	54.87	-0.02	
124	11-12	23 4.0	8.0	4.00	1.06	.....	.....	.....	.....	23 5.06	.....	.....
125	11	23 12.1	15.7	11.90	1.05	23 12.4	16.2	12.30	0.97	23 12.95	13.27	-0.32	
126	9-10	23 34.4	38.5	34.45	1.05	23 34.5	38.3	34.40	0.97	23 35.50	35.37	+0.13	
127	9-10	23 40.1	44.1	40.10	1.05	23 40.0	44.0	40.00	0.97	23 41.15	40.97	+0.18	
128	10	23 54.7	58.5	54.60	1.06	23 54.6	58.6	54.60	0.98	23 55.66	55.58	+0.08	
129	10-11	24 7.2	11.2	7.20	1.06	.....	.....	.....	.....	24 8.26	.....	.....
130	9-10	24 31.3	35.5	31.40	1.07	24 31.5	35.6	31.55	0.98	24 32.47	32.53	-0.06	
131	9-10	24 40.2	44.1	40.15	1.06	24 40.0	44.0	40.00	0.98	24 41.21	40.98	+0.23	
132	..	.....	.....	.....	.....	25 22.2	26.4	22.30	0.98	25	23.28	.....
133	9-10	26 5.4	9.5	5.45	1.06	26 5.6	9.5	5.55	0.97	26 6.51	6.52	-0.01	
134	10-11	26 15.2	19.2	15.20	1.07	26 15.2	19.3	15.25	0.97	26 16.27	16.22	+0.05	
135	9-10	6 26 26.1	....	26.10	+1.06	6 26 26.1	30.1	26.10	+0.97	6 26 27.16	27.07	+0.09	

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 159.	d.	Zone 161.	d.	Zone 159.	Zone 161.		
91	+ 5 55	+ 2.6	+ 5 53	+ 5.2	+ 0 45 57.6	58.2	+ 0.6	
92	4 19	2.9	....	...	0 44 21.9	....	...
93	8 25	2.2	8 22	4.7	0 48 27.2	26.7	+ 0.5	
94	6 42	2.5	6 43	5.1	0 46 44.5	48.1	- 3.6	
95	0 7	3.5	0 6	6.5	0 40 10.5	12.5	- 2.0	
96	9 32	2.1	....	...	0 49 34.1	....	...
97	2 56	3.0	....	...	0 42 59.0	....	...
98	7 38	2.3	7 34	5.0	0 47 40.3	39.0	+ 1.3	
99	7 19	2.4	7 16	5.1	0 47 21.4	21.1	+ 0.3	
100	6 51	2.4	6 49	5.2	0 46 53.4	54.2	- 0.8	
101	2 36	3.1	2 36	6.2	0 42 39.1	42.2	- 3.1	
102	8 22	2.2	8 21	4.9	0 48 21.2	25.9	- 1.7	
103	6 58	2.4	6 58	5.3	0 47 0.4	3.3	- 2.9	
104	4 0	2.9	3 59	6.0	0 44 2.9	5.0	- 2.1	
105	4 12	2.8	4 11	6.0	0 44 14.8	17.0	- 2.2	
106	9 5	2.1	9 6	5.0	0 49 7.1	11.0	- 3.9	
107	....	...	10 9	3.8	0 50	12.8	...	
108	....	...	+ 1 13	6.7	0 41	19.7	...	
109	....	...	- 0 5	7.0	0 40	2.0	...	
110	3 52	2.8	+ 3 51	6.1	0 43 53.8	57.1	- 3.3	
111	4 41	2.7	5 39	5.9	0 45 43.7	44.9	- 1.2	
112	7 14	2.3	7 16	5.6	0 47 16.3	21.6	- 5.3	
113	....	...	8 21	5.4	0 48	26.4	...	
114	7 41	2.3	....	...	0 47 46.3	....	...
115	....	...	....	...	.....	....	...
116	6 55	2.3	6 53	5.7	0 46 57.3	58.7	- 1.4	
117	4 18	2.7	4 18	6.3	0 44 20.7	24.3	- 3.6	
118	5 50	2.5	5 52	5.9	0 45 52.5	57.9	- 5.4	
119	5 11	2.6	5 10	6.1	0 45 13.6	16.1	- 2.5	
120	7 31	2.3	7 30	5.6	0 47 33.3	35.6	- 2.3	
121	8 9	2.2	8 6	5.5	0 48 11.2	11.5	- 0.3	
122	2 0	3.1	2 1	6.8	0 42 3.1	7.8	- 4.7	
123	8 34	2.1	8 35	5.4	0 48 36.1	40.4	- 4.3	
124	5 54	2.5	....	...	0 45 56.5	....	...
125	9 31	1.9	....	...	0 49 32.9	....	...
126	9 55	1.9	9 53	5.2	0 49 56.9	58.2	- 1.3	
127	8 25	2.1	8 26	5.5	0 48 27.1	31.5	- 4.4	
128	4 49	2.6	4 49	6.3	0 41 51.6	55.3	- 3.7	
129	4 30	2.7	....	...	0 44 32.7	....	...
130	3 56	2.8	3 57	6.5	0 43 58.8	63.5	- 4.7	
131	4 52	2.6	4 51	6.3	0 44 54.6	57.3	- 2.7	Struck the telescope, zone 159.
132	....	...	3 18	6.7	0 43	24.7	...	
133	7 36	2.2	7 34	5.8	0 47 38.2	39.8	- 1.6	
134	5 32	2.5	5 27	6.3	0 45 34.5	33.3	+ 1.2	
135	+ 8 27	+ 2.0	+ 8 21	+ 5.7	+ 0 48 29.0	26.7	+ 2.3	

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 159.						ZONE 161.						MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.		Zone 159.	Zone 161.	
		h. m. s.	s.	s.	s.			h. m. s.	s.	s.	s.			h. m. s.	s.	
136	9	6 26 29.3	33.5	29.40	+1.07			6 26 29.4	33.4	29.40	+0.97			6 26 30.47	30.37	+0.10
137	9-10	26 53.3	57.3	53.30	1.06			26 53.4	57.3	53.35	0.97			26 54.36	54.32	+0.04
138	10	27 5.3	9.1	5.20	1.05			27 5.4	9.5	5.45	0.97			27 6.25	6.42	-0.17
139	10	27 8.2	12.3	8.25	1.05			27 8.5	12.3	8.40	0.97			27 9.30	9.37	-0.07
140	10-11	27 20.2	24.1	20.15	1.05			27	24.3	20.30	0.97			27 21.20	21.27	-0.07
141	10	27 30.2	34.1	30.15	1.05			27 30.3	34.3	30.30	0.97			27 31.20	31.27	-0.07
142	9-10	28 0.4	4.1	0.25	1.08			28 0.3	4.2	0.25	0.98			28 1.33	1.23	+0.10
143	10	28 6.3	10.3	6.30	1.07			.....	.....	.....	.....			28 7.37	.....	.....
144	.....	.....	.....	.....	.....			28	39.1	35.10	0.98			28	36.08	.....
145	10-11	29 39.4	43.2	39.30	1.08			29 39.2	....	39.20	0.97			29 40.38	40.17	+0.21
146	11	29 46.7	50.5	46.60	1.09			29 46.6	50.5	46.55	0.97			29 47.69	47.52	+0.17
147	11-12	30 9.7	13.6	9.65	1.08			30 9.7	13.6	9.65	0.97			30 10.73	10.62	+0.11
148	11-12	30 50.0	54.0	50.00	1.09			30 50.3	54.2	50.25	0.97			30 51.09	51.22	-0.13
149	11	31 3.8	7.6	3.70	1.09			31 4.0	7.9	3.95	0.98			31 4.79	4.93	-0.14
150	9-10	31 16.1	20.1	16.10	1.08			31 16.1	20.1	16.10	0.96			31 17.18	17.06	+0.12
151	10	31	24.4	20.40	1.08			31	24.5	20.50	0.96			31 21.48	21.46	+0.02
152	10	31 37.1	41.2	37.15	1.08			31 37.3	41.1	37.20	0.97			31 38.23	38.17	+0.06
153	10	31 56.0	....	56.00	1.08			31 56.0	60.2	56.10	0.96			31 57.08	57.06	+0.02
154	10-11	31 59.3	63.1	59.20	1.09			31 59.3	63.7	59.50	0.97			32 0.29	0.47	-0.18
155	9-10	32 19.9	23.7	19.80	1.09			32 20.0	....	20.00	0.97			32 20.89	20.97	-0.08
156	9-10	32	27.5	23.50	1.08			32 23.9	27.9	23.90	0.97			32 24.58	24.87	-0.29
157	10	32 40.8	44.7	40.75	1.09			.....	.....	.....	.....			32 41.84	.....	.....
158	9-10	32 52.2	56.2	52.20	1.09			32 52.4	56.3	52.35	0.97			32 53.29	53.32	-0.03
159	9-10	33 14.8	18.8	14.80	1.08			33 14.9	18.8	14.85	0.96			33 15.88	15.81	+0.07
160	10	33 17.8	21.8	17.80	1.09			33 17.9	22.0	17.95	0.97			33 18.89	18.92	-0.03
161	10-11	33 59.4	63.3	59.35	1.09			33 59.5	63.6	59.55	0.96			34 0.44	0.51	-0.07
162	10-11	34 42.0	46.0	42.00	1.10			34 42.2	46.0	42.10	0.97			34 43.10	43.07	+0.03
163	10-11	34 58.1	61.8	57.95	1.10			34 58.2	62.1	58.15	0.97			34 59.05	59.12	-0.07
164	10-11	35 15.7	19.7	15.70	1.09			35 15.7	19.5	15.60	0.96			35 16.79	16.56	+0.23
165	10	35 24.1	27.9	24.00	1.10			.....	.....	.....	.....			35 25.10	.....	.....
166	10-11	35 48.5	52.5	48.50	1.11			.....	.....	.....	.....			35 49.61	.....	.....
167	10-11	35 50.3	54.4	50.35	1.11			35 50.5	54.4	50.45	0.97			35 51.46	51.42	+0.04
168	10-11	36	11.0	7.00	1.09			36	11.2	7.20	0.96			36 8.09	8.16	-0.07
169	10-11	36 14.7	18.7	14.70	1.09			36 15.1	18.8	14.95	0.96			36 15.79	15.91	-0.12
170	10	36 30.0	34.1	30.05	1.10			36	34.2	30.20	0.97			36 31.15	31.17	-0.02
171	10	36 40.9	44.8	40.85	1.10			36 41.0	45.1	41.05	0.96			36 41.95	42.01	-0.06
172	9-10	36 58.6	62.7	58.65	1.10			36 58.8	62.7	58.75	0.96			36 59.75	59.71	+0.04
173	9	37 23.1	27.2	23.15	1.11			37 23.1	27.1	23.10	0.97			37 24.26	24.07	+0.19
174	10	37 35.1	....	35.20	1.11			37 35.1	....	35.10	0.97			37 36.31	36.07	+0.24
175	9-10	37 40.1	44.1	40.15	1.10			37	44.2	40.20	0.96			37 41.25	41.16	+0.09
176	10-11	38 24.3	28.3	24.30	1.10			38 24.4	28.3	24.35	0.95			38 25.40	25.30	+0.10
177	10-11	38 25.2	29.0	25.10	1.10			38 25.1	28.9	25.00	0.96			38 26.10	25.96	+0.14
178	10-11	38 42.6	46.6	42.60	1.11			38 42.4	46.4	42.40	0.96			38 43.71	43.36	+0.35
179	10-11	38 45.5	49.3	45.40	1.11			6 38	49.6	45.60	+0.97			38 46.51	46.57	-0.06
180	10	6 38 52.7	56.6	52.65	+1.10			.....	.....	.....	.....			6 38 53.75	.....	.....

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.

Dec. +0° 40' to 0° 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference	REMARKS.
	Zone 159.	d.	Zone 161.	d.	Zone 159.	Zone 161.		
136	+ 4 2	+ 2.7	+ 3 57	+ 6.6	+ 0 44 4.7	3.6	+ 1.1	
137	8 6	2.1	8 2	5.8	0 48 8.1	7.8	+ 0.3	
138	7 16	2.2	7 12	6.0	0 47 18.2	18.0	+ 0.2	
139	7 52	2.1	7 48	5.8	0 47 54.1	53.8	+ 0.3	
140	9 2	2.0	8 58	5.6	0 49 4.0	3.6	+ 0.4	
141	8 6	2.1	8 1	5.8	0 48 8.1	6.8	+ 1.3	
142	1 26	3.1	1 24	7.2	0 41 29.1	31.2	- 2.1	
143	7 6	2.3	7 1	6.0	0 47 8.3	7.0	+ 1.3	
144	....	...	2 19	6.0	0 42	25.0	...	
145	3 24	2.8	3 19	6.9	0 43 26.8	25.9	+ 0.9	
146	0 32	3.2	0 28	7.5	0 40 35.2	35.5	- 0.3	
147	7 10	2.2	7 3	6.1	0 47 12.2	9.1	+ 3.1	
148	3 50	2.7	3 43	6.8	0 43 52.7	49.8	+ 2.9	
149	1 2	3.1	0 58	7.5	0 41 5.1	5.5	- 0.4	
150	9 43	1.8	9 38	5.6	0 49 44.8	43.6	+ 1.2	
151	8 19	2.0	7 18	6.2	0 48 21.0	24.2	- 3.2	
152	5 44	2.4	5 41	6.5	0 45 46.4	47.5	- 1.1	
153	7 9	2.2	7 5	6.2	0 47 11.2	11.2	0.0	
154	4 4	2.7	3 58	6.9	0 44 6.7	4.9	+ 1.8	
155	2 17	2.9	2 12	7.3	0 42 19.9	19.3	+ 0.6	
156	6 9	2.4	....	...	0 46 11.4	....	...
157	6 20	2.3	....	...	0 46 22.3	....	...
158	5 36	2.4	5 30	6.6	0 45 38.4	36.6	+ 1.8	
159	8 22	2.0	8 18	6.0	0 48 24.0	24.0	0.0	
160	5 48	2.4	5 42	6.6	0 45 50.4	48.6	+ 1.8	
161	8 16	2.0	8 11	6.1	0 48 18.0	17.1	+ 0.9	
162	2 35	2.9	2 42	7.3	0 42 37.9	49.3	-11.4	
163	0 58	3.1	0 53	7.7	0 41 1.1	0.7	+ 0.4	
164	7 39	2.1	7 26	6.4	0 47 41.1	32.4	+ 8.7	
165	1 11	3.1	....	...	0 41 14.1	....	...
166	1 59	2.9	....	...	0 42 1.9	....	...
167	0 12	3.2	0 7	8.0	0 40 15.2	15.0	+ 0.2	
168	6 52	2.2	6 25	6.6	0 46 54.2	31.6	+22.6	
169	6 50	2.2	6 46	6.6	0 46 52.2	52.6	- 0.4	
170	2 51	2.8	2 48	7.4	0 42 53.8	55.4	- 1.6	
171	4 18	2.6	4 14	7.1	0 44 20.6	21.1	- 0.5	
172	5 15	2.5	5 12	6.9	0 45 17.5	18.9	- 1.4	
173	3 31	2.7	3 27	7.3	0 43 33.7	34.3	- 0.6	
174	2 52	2.8	2 50	7.4	0 42 54.8	57.4	- 2.6	
175	5 35	2.4	5 28	7.0	0 45 37.4	35.0	+ 2.4	
176	8 38	1.9	8 34	6.3	0 48 39.9	40.3	- 0.4	
177	5 15	2.4	5 11	7.0	0 45 17.4	18.0	- 0.6	
178	4 20	2.6	4 13	7.2	0 44 22.6	20.2	+ 2.4	
179	2 30	2.8	+ 2 25	+ 8.6	0 42 32.8	31.6	+ 1.2	
180	+10 1	+ 1.7	....	...	+ 0 50 2.7	....	...

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. +^{h.}0 ^{m.}40 to ^{h.}0 ^{m.}50.

Number of the Star.	Magnitude.	ZONE 159.					ZONE 161.					MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 159.	Zone 161.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
181	10	6 39 15.9	....	15.90	+1.11		6 39 16.1	20.1	16.10	+0.96		6 39 17.01	17.06	-0.05
182	10	39	19.8	15.80	1.10		.....	.....	.....	.....		39 16.90	.....	.....
183	9-10	39 50.5	54.4	50.45	1.10		39 50.6	54.6	50.60	0.95		39 51.55	51.55	0.00
184	9-10	39 53.1	57.1	53.10	1.11		39 53.1	57.0	53.05	0.96		39 54.21	54.01	+0.20
185	9	40 16.8	20.7	16.75	1.10		40 16.8	20.6	16.70	0.95		40 17.85	17.65	+0.20
186	10	40 22.3	26.3	22.30	1.10		.....	.....	.....	.....		40 23.40	.....	.....
187	..	.....	.....	.....	.....		40 44.5	48.5	44.50	0.96		40	45.46	.....
188	11	40 58.5	....	58.50	1.11		.....	.....	.....	.....		40 59.61	.....	.....
189	10	41 2.8	6.6	2.70	1.11		41 2.8	6.9	2.85	0.96		41 3.81	3.81	0.00
190	10	41 19.7	23.5	19.60	1.11		41 19.9	23.8	19.85	0.96		41 20.71	20.81	-0.10
191	10	41 29.5	33.4	29.45	1.12		41 29.7	33.7	29.70	0.96		41 30.57	30.66	-0.09
192	9-10	41 55.2	59.3	55.25	1.11		41 55.3	59.3	55.30	0.95		41 56.36	56.25	+0.11
193	10	41 56.6	60.6	56.60	1.12		41 56.8	60.7	56.75	0.96		41 57.72	57.71	+0.01
194	9-10	42 12.5	16.3	12.40	1.12		42 12.5	16.6	12.55	0.96		42 13.52	13.51	+0.01
195	9-10	42 25.5	29.6	25.55	1.11		42 25.7	29.6	25.65	0.95		42 26.66	26.60	+0.06
196	10-11	42 57.6	61.5	57.55	1.12		42 57.6	61.6	57.60	0.95		42 58.67	58.55	+0.12
197	9-11	43 13.6	17.4	13.50	1.11		43 13.8	17.7	13.75	0.94		43 14.61	14.69	-0.08
198	10-11	44 2.3	6.2	2.25	1.13		.....	.....	.....	.....		44 3.38	.....	.....
199	10	44 29.5	....	29.50	1.13		44 29.5	....	29.50	0.95		44 30.63	30.45	+0.18
200	9-10	44 33.1	37.2	33.15	1.13		44 33.2	37.2	33.20	0.95		44 34.28	34.15	+0.13
201	..	.....	.....	.....	.....		44 39.7	43.7	39.70	0.94		44	40.64	.....
202	9-11	45 16.8	20.6	16.70	1.12		45 17.0	20.7	16.85	0.94		45 17.82	17.79	+0.03
203	10	45 26.4	30.4	26.40	1.13		45 26.4	30.4	26.40	0.96		45 27.53	27.36	+0.17
204	12	45 47.8	51.5	47.65	1.13		.....	.....	.....	.....		45 48.78	.....	.....
205	10-11	45 57.0	61.1	57.05	1.13		45 57.0	60.8	56.90	0.95		45 58.18	57.85	+0.33
206	10	46 46.8	51.0	46.90	1.13		46 46.8	50.8	46.80	0.95		46 48.03	47.75	+0.28
207	..	46	51.5	47.50	1.13		46 47.3	51.3	47.30	0.95		46 48.63	48.25	+0.38
208	10	47 18.6	22.4	18.50	1.13		47 18.6	22.4	18.50	0.95		47 19.63	19.45	+0.18
209	9-10	47 28.3	32.2	28.25	1.13		47 28.2	32.2	28.20	0.95		47 29.38	29.15	+0.23
210	10-11	47 37.3	41.3	37.30	1.14		47 37.5	41.3	37.40	0.95		47 38.44	38.35	+0.09
211	10	47 42.2	46.1	42.15	1.13		47 42.5	46.5	42.50	0.94		47 43.28	43.44	-0.16
212	9-10	48 24.3	28.1	24.20	1.13		48 24.3	28.4	24.35	0.94		48 25.33	25.29	+0.04
213	9-10	48	32.1	28.10	1.13		48	32.4	28.40	0.94		48 29.23	29.34	-0.11
214	10-11	49 5.1	9.1	5.10	1.14		49	9.1	5.10	0.94		49 6.24	6.04	+0.20
215	10-11	49 14.1	18.0	14.05	1.13		49 14.1	18.1	14.10	0.94		49 15.18	15.04	+0.14
216	10-11	49 27.2	31.0	27.10	1.14		.....	.....	.....	.....		49 28.24	.....	.....
217	11	49 44.5	48.3	44.40	1.13		.....	.....	.....	.....		49 45.53	.....	.....
218	9-10	49 53.2	57.2	53.20	1.14		49 53.2	57.2	53.20	0.94		49 54.34	54.14	+0.20
219	10	50 14.1	18.0	14.05	1.13		.....	.....	.....	.....		50 15.18	.....	.....
220	10	50 44.6	48.5	44.55	1.15		.....	.....	.....	.....		50 45.70	.....	.....
221	11	51 24.5	28.4	24.45	1.15		.....	.....	.....	.....		51 25.60	.....	.....
222	10-11	51 53.9	58.1	54.00	1.14		51 54.0	58.0	54.00	0.93		51 55.14	54.93	+0.21
223	10-11	52 2.0	6.0	2.00	1.14		52 2.0	6.1	2.05	0.94		52 3.14	2.99	+0.15
224	11	52 31.6	35.5	31.55	1.14		52 32.0	....	32.00	0.93		52 32.69	32.93	-0.24
225	10	6 52 32.1	36.1	32.10	+1.14		6 52	36.3	32.30	+0.93		6 52 33.24	33.23	+0.01

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 159.	d.	Zone 161.	d.	Zone 159.	Zone 161.		
181	+ 3 59	+ 2.6	+ 3 54	+ 7.3	+ 0 44 1.6	1.3	+ 0.3	
182	6 22	2.3	....	...	0 46 24.3	....	...
183	10 26	1.6	10 20	6.1	0 50 27.6	26.1	+ 1.5	
184	6 59	2.2	6 54	6.7	0 47 1.2	0.7	+ 0.5	
185	10 29	1.6	10 24	6.0	0 50 30.6	30.0	+ 0.6	
186	9 51	1.7	....	...	0 49 52.7	....	...
187	....	...	5 57	7.0	0 46	4.0	...	
188	5 51	2.3	....	...	0 45 53.3	....	...
189	3 56	2.6	3 48	7.5	0 43 58.6	55.5	+ 3.1	
190	4 57	2.4	4 51	7.2	0 44 59.4	58.2	+ 1.2	
191	2 12	2.9	2 8	7.8	0 42 14.9	15.8	- 0.9	
192	6 38	2.2	6 32	7.0	0 46 40.2	39.0	+ 1.2	
193	2 53	2.7	2 49	7.7	0 42 55.7	56.7	- 1.0	
194	4 17	2.5	4 12	7.4	0 44 19.5	19.4	+ 0.1	
195	6 56	2.1	6 50	6.9	0 46 58.1	56.9	+ 1.2	
196	6 25	2.2	6 19	7.0	0 46 27.2	26.0	+ 1.2	
197	10 39	1.6	10 30	6.2	0 50 40.6	36.2	+ 4.4	
198	0 30	3.1	....	...	0 40 33.1	....	...
199	2 49	2.8	2 42	7.9	0 42 51.8	49.9	+ 1.9	
200	4 49	2.4	4 44	7.5	0 44 51.4	51.5	- 0.1	
201	....	...	9 28	6.5	0 49	34.5	...	
202	7 45	2.0	7 40	6.9	0 47 47.0	46.9	+ 0.1	
203	2 22	2.8	2 17	8.0	0 42 24.8	25.0	- 0.2	
204	4 23	2.5	....	...	0 44 25.5	....	...	Double.
205	3 21	2.6	3 16	7.9	0 43 23.6	23.9	- 0.3	
206	4 16	2.5	4 12	7.7	0 44 18.5	19.7	- 1.2	
207	....	...	4 32	7.6	0 44	39.6	...	
208	5 12	2.3	5 8	7.6	0 45 14.3	15.6	- 1.3	
209	4 43	2.4	4 41	7.7	0 44 45.4	48.7	- 3.3	
210	2 31	2.7	2 36	8.1	0 42 33.7	44.1	...	
211	6 8	2.2	6 2	7.4	0 46 10.2	9.4	+ 0.8	
212	9 21	1.7	9 16	6.8	0 49 22.7	22.8	- 0.1	
213	8 6	1.9	8 2	7.0	0 48 7.9	9.0	- 1.1	
214	3 46	2.6	3 42	7.9	0 43 48.6	49.9	- 1.3	
215	8 6	1.9	8 0	7.1	0 48 7.9	7.1	+ 0.8	
216	2 47	2.7	....	...	0 42 49.7	....	...
217	8 8	1.9	....	...	0 48 9.9	....	...
218	4 38	2.4	4 33	7.8	0 44 40.4	40.8	- 0.4	
219	8 54	1.8	....	...	0 48 55.8	....	...
220	1 5	2.9	....	...	0 41 7.9	....	...
221	3 4	2.6	....	...	0 43 6.6	....	...
222	7 33	2.0	7 25	7.4	0 47 35.0	32.9	+ 2.1	
223	6 35	2.1	6 26	7.6	0 46 37.1	33.6	+ 3.5	
224	7 54	1.9	+ 7 48	+ 7.3	0 47 55.9	55.3	+ 0.6	
225	+ 7 54	+ 1.9	....	...	+ 0 47 55.9	....	...

A.R. $\overset{h.}{5} \overset{m.}{28}$ to $\overset{h.}{7} \overset{m.}{25}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number of the Star.	Magnitude.	ZONE 159.					ZONE 161.					MEAN RIGHT ASCENSION. 1860.0			Difference.				
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 159.	Zone 161.								
h.	m.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.	s.	s.	s.					
226	10	6	52	....	41.5	37.50	+1.14	6	52	37.7	41.7	37.70	+0.94	6	52	38.64	38.64	0.00	
227	11		53	14.2	18.2	14.20	1.14		.....	.....	.....	.....			53	15.34	.....	.....
228	11		53	17.3	21.3	17.30	1.14		53	17.5	....	17.50	0.93		53	18.44	18.43	+0.01	
229	8-9		53	58.2	62.1	58.15	1.15		53	58.3	62.2	58.25	0.94		53	59.30	59.19	+0.11	
230	10		54	12.3	16.4	12.35	1.15		54	12.5	16.5	12.50	0.94		54	13.50	13.44	+0.06	
231	10-11		55	1.5	5.3	1.40	1.15		55	1.6	5.5	1.55	0.93		55	2.55	2.48	+0.07	
232	9-10		55	13.8	17.7	13.75	1.16		55	13.8	17.9	13.85	0.94		55	14.91	14.79	+0.12	
233	10-11		55	43.3	47.3	43.30	1.15		55	43.5	47.4	43.45	0.94		55	44.35	44.39	-0.04	
234	9-10		56	4.1	8.0	4.05	1.16		56	4.1	8.2	4.15	0.94		56	5.21	5.09	+0.12	
235	11-12		56	56.3	60.1	56.20	1.16		.....	.....	.....	.....			56	57.36	.....	.....
236	11-12		57	22.0	25.7	21.85	1.16		57	22.0	25.8	21.90	0.94		57	23.01	22.84	+0.17	
237	9-10		57	32.1	36.3	32.20	1.15		57	32.5	36.4	32.45	0.93		57	33.35	33.38	-0.03	
238	10-11		57	53.8	57.7	53.75	1.16		57	53.8	57.6	53.70	0.94		57	54.91	54.64	+0.27	
239	9-10		59	4.7	8.6	4.65	1.16		59	4.8	8.9	4.85	0.94		59	5.81	5.79	+0.02	
240	10-11	6	59	42.6	46.2	42.40	1.17		6	59	42.5	46.5	42.50	0.94	6	59	43.57	43.44	+0.13
241	10-11	7	0	....	43.7	39.70	1.17		7	0	39.9	43.6	39.75	0.94	7	0	40.87	40.69	+0.18
242	10-11		0	....	47.0	43.00	1.16			0	....	47.4	43.40	0.93		0	44.16	44.33	-0.17
243	9-10		1	13.7	17.7	13.70	1.17			1	....	17.7	13.70	0.93		1	14.87	14.63	+0.24
244	9		1	22.1	26.1	22.10	1.17			1	22.0	26.0	22.00	0.94		1	23.27	22.94	+0.33
245	9-10		.....	.....	.....	.....	.....			1	52.6	56.8	52.70	0.93		1	.....	53.63	.....
246	9-10		2	51.8	55.5	51.65	1.17			2	51.8	55.7	51.75	0.92		2	52.82	52.67	+0.15
247	9-10		3	9.1	13.1	9.10	1.16			3	9.5	13.4	9.45	0.92		3	10.26	10.37	-0.11
248	9-10		3	31.3	....	31.30	1.17			3	31.3	35.4	31.35	0.92		3	32.47	32.27	+0.20
249	10		3	....	35.4	31.40	1.17			.....	.....	.....	.....			3	32.57	.....	.....
250	11		4	49.7	53.6	49.65	1.17			.....	.....	.....	.....			4	50.82	.....	.....
251	9-10		5	7.4	11.3	7.35	1.18			5	7.4	11.4	7.40	0.93		5	8.53	8.33	+0.20
252	9-10		5	20.0	23.9	19.95	1.17			5	20.0	24.0	20.00	0.91		5	21.12	20.91	+0.21
253	9-10		5	31.2	35.2	31.20	1.18			5	31.3	35.3	31.30	0.92		5	32.38	32.22	+0.16
254	9-10		6	8.9	12.9	8.90	1.17			6	8.9	12.9	8.90	0.91		6	10.07	9.81	+0.26
255	10-12		7	3.3	7.1	3.20	1.17			7	3.5	7.4	3.45	0.91		7	4.37	4.36	+0.01
256	9		7	22.6	26.5	22.55	1.17			7	22.6	26.7	22.65	0.91		7	23.72	23.56	+0.16
257	10		7	42.1	46.0	42.05	1.17			.....	.....	.....	.....			7	43.22	.....	.....
258	11		8	11.9	15.7	11.80	1.18			8	11.8	15.7	11.75	0.91		8	12.98	12.66	+0.32
259	9-10		8	21.6	25.4	21.50	1.19			8	21.7	25.6	21.65	0.92		8	22.69	22.57	+0.12
260	10		8	39.3	43.3	39.30	1.19			8	39.6	43.4	39.50	0.92		8	40.49	40.42	+0.07
261	10-11		8	58.8	62.8	58.80	1.19			8	59.1	63.1	59.10	0.91		8	59.99	60.01	-0.02
262	11		9	24.6	28.4	24.50	1.18			9	24.8	28.6	24.70	0.90		9	25.68	25.60	+0.08
263	10		9	35.5	39.5	35.50	1.20			9	35.5	39.7	35.60	0.92		9	36.70	36.52	+0.18
264	9		9	48.0	52.0	48.00	1.18			9	48 0	52.0	48.00	0.91		9	49.18	48.91	+0.27
265	9-10		11	52.2	56.1	52.15	1.20			11	52.6	56.4	52.50	0.91		11	53.35	53.41	-0.06
266	10-11		12	30.5	34.5	30.50	1.20			12	30.7	34.5	30.60	0.90		12	31.70	31.50	+0.20
267	10-11		13	43.1	47.0	43.05	1.20			13	43.1	46.9	43.00	0.91		13	44.25	43.91	+0.34
268	11		13	57.4	61.6	57.50	1.20			13	57.6	61.8	57.70	0.90		13	58.70	58.60	+0.10
269	9-10		14	20.9	24.9	20.90	1.19		7	14	21.1	25.0	21.05	+0.89		14	22.09	21.94	+0.15
270	11-12	7	14	58.2	62.3	58.25	+1.21			.....	.....	.....	.....			7	14	59.90	.....

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 159.	d.	Zone 161.	d.	Zone 159.	Zone 161.		
226	+ 5 36	+ 2.2	+ 5 31	+ 7.8	+ 0 45 38.8	38.8	0.0	
227	8 27	1.8	....	...	0 48 28.8	....	...
228	7 3	2.0	6 55	7.5	0 47 5.0	2.5	+ 2.5	
229	4 39	2.4	4 33	7.9	0 44 41.4	40.9	+ 0.5	
230	3 7	2.6	3 2	8.4	0 43 9.6	10.4	- 0.8	
231	5 51	2.2	5 46	7.9	0 45 53.1	53.9	- 0.8	
232	1 52	2.8	1 44	8.7	0 41 54.8	52.7	+ 2.1	
233	4 5	2.4	4 0	8.3	0 44 7.4	8.3	- 0.9	
234	3 4	2.6	2 57	8.5	0 43 6.6	5.5	+ 1.1	
235	3 46	2.5	....	...	0 43 48.5	....	...
236	1 9	2.9	1 6	9.0	0 41 11.9	15.0	- 3.1	
237	5 36	2.2	5 27	8.1	0 45 38.2	35.1	+ 3.1	
238	2 15	2.7	2 9	8.9	0 42 17.7	17.9	- 0.2	
239	+ 1 55	2.7	1 48	8.9	0 41 57.7	56.9	+ 0.8	
240	- 0 10	3.0	....	...	0 39 53.0	....	...
241	+ 0 44	2.9	0 38	9.3	0 40 46.9	47.3	- 0.4	
242	4 58	2.2	4 49	8.4	0 44 60.2	57.4	+ 2.8	
243	3 24	2.5	3 18	8.8	0 43 26.5	26.8	- 0.3	
244	0 38	2.9	0 24	9.4	0 40 40.9	33.4	+ 7.5	Zone 161 correct in declination.
245	2 57	2.5	2 50	8.9	0 42 59.5	58.9	+ 0.6	
246	4 6	2.4	4 0	8.8	0 44 6.4	8.8	- 2.4	
247	8 1	1.8	7 54	8.0	0 48 2.8	2.0	+ 0.8	
248	6 21	2.0	6 16	8.3	0 46 23.0	24.3	- 1.3	
249	4 18	2.3	....	...	0 44 20.3	....	...
250	9 36	1.5	....	...	0 49 37.5	....	...
251	1 52	2.7	1 47	8.3	0 41 54.7	55.3	- 0.6	
252	8 45	1.6	8 40	7.9	0 48 46.6	47.9	- 1.3	
253	5 6	2.2	5 1	8.7	0 45 8.2	9.7	- 1.5	
254	7 3	1.9	6 57	8.3	0 47 4.9	5.3	- 0.4	
255	8 18	1.7	8 11	8.1	0 48 19.7	19.1	+ 0.6	
256	9 37	1.5	9 30	7.9	0 49 38.5	37.9	+ 0.6	
257	10 13	1.4	....	...	0 50 14.4	....	...
258	9 15	1.5	9 7	7.9	0 49 16.5	14.9	+ 1.6	
259	2 56	2.5	2 48	9.3	0 42 58.5	57.3	+ 1.2	
260	3 41	2.4	3 36	9.2	0 43 43.4	45.2	- 1.8	
261	5 16	2.1	5 9	8.9	0 45 18.1	17.9	+ 0.2	
262	9 36	1.5	9 27	8.0	0 49 37.5	35.0	+ 2.5	
263	1 29	2.7	1 20	8.7	0 41 31.7	28.7	+ 3.0	
264	7 26	1.8	7 11	8.5	0 47 27.8	19.5	...	
265	3 25	2.4	3 18	9.4	0 43 27.4	27.4	0.0	
266	5 15	2.1	5 10	9.0	0 45 17.1	19.0	- 1.9	
267	3 59	2.3	3 54	9.4	0 44 1.3	3.4	- 2.1	
268	3 54	2.3	3 48	9.4	0 43 56.3	57.4	- 1.1	
269	9 34	1.4	+ 9 29	+ 8.2	0 49 35.4	37.2	- 1.8	
270	+ 2 1	+ 2.6	....	...	+ 0 42 3.6	....	...

ZONE OBSERVATIONS.

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 159.					ZONE 161.					MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 159.	Zone 161.			
271	9-10	7 15 9.9	13.8	9.85	+1.20	7 15 10.1	14.1	10.10	+0.90	7 15 11.05	11.00	+0.05		
272	10	16 2.1	6.1	2.10	1.21	16 2.5	6.3	2.40	0.91	16 3.31	3.31	0.00		
273	9	16 9.3	13.1	9.20	1.20	16 9.6	13.7	9.65	0.90	16 10.40	10.55	-0.15		
274	11	16 27.9	32.0	27.95	1.21	16 28.0	32.2	28.10	0.90	16 29.16	29.00	+0.16		
275	10-11	16 55.7	59.5	55.60	1.21	16 55.8	59.6	55.70	0.90	16 56.81	56.60	+0.21		
276	10-11	17 35.4	39.4	35.40	1.21	17 35.7	39.5	35.60	0.90	17 36.61	36.50	+0.11		
277	11	17 47.6	51.6	47.60	1.22	17 47.7	51.7	47.70	0.91	17 48.82	48.61	+0.21		
278	10-11	18 0.1	4.0	0.05	1.21	18 0.3	4.1	0.20	0.89	18 1.26	1.09	+0.17		
279	9-10	18 12.0	15.7	11.85	1.22	18 12.0	16.0	12.00	0.90	18 13.07	12.90	+0.17		
280	10-11	18 17.2	20.9	17.05	1.21	18	21.3	17.30	0.90	18 18.26	18.20	+0.06		
281	11	18 26.8	30.4	26.60	1.21	18	30.9	26.90	0.89	18 27.81	27.79	+0.02		
282	10	19 51.2	55.1	51.15	1.21	19 51.4	55.2	51.30	0.89	19 52.36	52.19	+0.17		
283	11	20 5.8	9.9	5.85	1.22	20 6.1	10.3	6.20	0.90	20 7.07	7.10	-0.03		
284	..	.....	.....	.....	.....	20 14.5	.....	.....	0.89	20	15.19	.....	
285	10	20 18.2	22.2	18.20	1.21	20	22.4	18.40	0.89	20 19.41	19.29	+0.12		
286	10	20 54.1	57.9	54.00	1.22	20 54.1	58.1	54.10	0.90	20 55.22	55.00	+0.22		
287	9-10	20 60.0	63.8	59.90	1.23	20 60.0	63.9	59.95	0.90	21 1.13	0.85	+0.28		
288	10	21 20.9	24.8	20.85	1.21	21 21.2	25.1	21.15	0.89	21 22.06	22.04	+0.02		
289	9-10	22 2.2	6.2	2.20	1.22	22 2.4	6.3	2.35	0.89	22 3.42	3.24	+0.18		
290	11-12	22 50.5	54.2	50.35	1.22	22 50.6	54.6	50.60	0.90	22 51.57	51.50	+0.07		
291	10-11	23 12.5	16.5	12.50	1.24	23 12.7	16.8	12.75	0.90	23 13.74	13.65	+0.09		
292	9-10	23 33.4	....	33.40	1.23	23 33.6	....	33.60	0.90	23 34.63	34.50	+0.13
293	..	23 37.4	41.8	37.60	1.23	23	41.6	37.60	0.90	23 38.83	38.50	+0.33		
294	9-10	23 52.3	56.3	52.30	1.23	23 52.7	56.5	52.60	0.89	23 53.53	53.49	+0.04		
295	7-9	24 39.7	43.4	39.55	1.23	24 39.7	44.0	39.85	0.90	24 40.78	40.75	+0.03		
296	9-10	24	47.0	43.00	1.24	24 43.2	47.2	43.20	0.90	24 44.24	44.10	+0.14		
297	9-10	25 4.4	8.4	4.40	1.23	25 4.5	8.5	4.50	0.89	25 5.63	5.39	+0.24		
298	8-9	7 25 16.7	20.7	16.70	+1.23	7 25 16.8	20.9	16.85	+0.89	7 25 17.93	17.74	+0.19		

A.R. ^{h.}5 ^{m.}28 to ^{h.}7 ^{m.}25.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 159.	d.	Zone 161.	d.	Zone 159.	Zone 161.		
271	+ 9 "6	+ 1.5	+ 8 58	+ 8.4	+ 0 49 7.5	6.4	+ 1.1	
272	4 26	2.2	4 21	9.4	0 44 28.2	30.4	- 2.2	
273	9 0	1.5	8 53	8.4	0 49 1.5	1.4	+ 0.1	
274	5 33	2.0	5 31	9.2	0 45 35.0	40.2	- 5.2	
275	7 12	1.8	7 6	8.9	0 47 13.8	14.9	- 1.1	
276	7 59	1.6	7 52	8.7	0 48 0.6	0.7	- 0.1	
277	2 11	2.5	2 2	10.0	0 42 13.5	12.0	+ 1.5	
278	9 4	2.5	8 59	8.5	0 49 6.5	7.5	- 1.0	
279	4 42	2.1	4 36	9.5	0 44 44.1	45.5	- 1.4	
280	8 28	1.5	8 22	8.6	0 48 29.5	30.6	- 1.1	
281	8 59	1.5	8 51	8.5	0 48 60.5	59.5	+ 1.0	
282	7 55	1.6	7 47	8.8	0 47 56.6	55.8	+ 0.8	
283	5 13	2.0	5 7	9.4	0 45 15.0	16.4	- 1.4	
284	....	...	8 41	8.7	0 48	49.7	...	
285	8 39	1.5	7 37	8.9	0 48 40.5	45.9	- 5.4	
286	4 54	2.1	4 56	9.5	0 44 56.1	65.5	- 9.4	
287	3 18	2.3	....	...	0 43 20.3	....	...
288	9 59	1.3	9 53	8.5	0 50 0.3	1.5	- 1.2	
289	9 9	1.4	9 4	8.7	0 49 10.4	12.7	- 2.3	
290	4 40	2.1	4 36	9.7	0 44 42.1	45.7	- 3.6	
291	2 2	2.5	1 56	10.2	0 42 4.5	6.2	- 1.7	
292	4 43	2.1	4 36	9.7	0 44 45.1	45.7	- 0.6	
293	....	...	....	...	.....	....	...
294	7 29	1.6	7 22	9.1	0 47 30.6	31.1	- 0.5	
295	5 1	2.0	4 55	9.7	0 45 3.0	4.7	- 1.7	
296	0 15	2.7	0 9	10.7	0 40 17.7	19.7	- 2.0	
297	6 39	1.8	6 32	9.4	0 46 40.8	41.4	- 0.6	
298	+ 8 13	+ 1.5	+ 8 6	+ 9.1	+ 0 48 14.5	15.1	- 0.6	

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +⁰50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 160.				ZONE 162.				MEAN RIGHT ASCENSION 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 160.	Zone 162.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	
1	9-10	5 15 51.6	55.6	51.60	+0.70	5 15 51.6	55.5	51.55	+0.77	5 15 52.30	52.32	-0.02
2	9-10	15	59.9	55.90	0.71	15 56.1	59.9	56.00	0.78	15 56.61	56.78	-0.17
3	10-11	16 8.9	12.9	8.90	0.69	16 8.7	12.9	8.80	0.77	16 9.59	9.57	+0.02
4	11-12	16 41.6	45.7	41.65	0.69	16 41.7	45.8	41.75	0.77	16 42.34	42.52	-0.18
5	11	17 17.5	21.5	17.50	0.69	17 17.7	21.3	17.50	0.77	17 18.19	18.27	-0.08
6	9-10	17 58.7	62.6	58.65	0.70	17 58.5	62.3	58.40	0.77	17 59.35	59.17	+0.18
7	10-11	18 3.6	....	3.60	0.69	18 3.2	....	3.20	0.77	18 4.29	3.97	+0.32
8	9-10	18 7.3	11.2	7.25	0.69	18 7.2	11.0	7.10	0.77	18 7.94	7.87	+0.07
9	10-11	18	57.1	53.10	0.69	18 52.9	56.9	52.90	0.77	18 53.79	53.67	+0.12
10	9-10	19 2.8	6.6	2.70	0.69	19 2.6	6.5	2.55	0.77	19 3.39	3.32	+0.07
11	11-12	19 33.0	36.9	32.95	0.68	19 32.7	36.5	32.60	0.77	19 33.63	33.37	+0.26
12	10-11	20 5.9	....	5.90	0.69	20 6.0	....	6.00	0.77	20 6.59	6.77	-0.18
13	9-10	20 8.5	12.4	8.45	0.68	20 8.1	12.3	8.20	0.76	20 9.13	8.96	+0.17
14	9	20 22.9	27.0	22.95	0.69	20 22.6	26.7	22.65	0.77	20 23.64	23.42	+0.22
15	9	20 40.1	44.0	40.05	0.69	20 40.0	43.9	39.95	0.77	20 40.74	40.72	+0.02
16	10-11	21 16.5	20.7	16.60	0.68	21 15.9	20.2	16.05	0.77	21 17.28	16.82	+0.46
17	11	21 45.9	50.1	46.00	0.68	.....	.....	.....	.....	21 46.68	.....	.....
18	9-10	22 4.6	8.4	4.50	0.67	22 4.3	8.2	4.25	0.76	22 5.17	5.01	+0.16
19	9-10	22 48.9	52.8	48.85	0.68	22 48.6	52.7	48.65	0.76	22 49.53	49.41	+0.12
20	10-11	23 1.9	5.8	1.85	0.66	23 1.7	5.5	1.60	0.75	23 2.51	2.35	+0.16
21	10-11	23 20.3	....	20.30	0.66	23 20.1	....	20.10	0.76	23 20.96	20.86	+0.10
22	9-10	23 27.0	31.0	27.00	0.68	23 26.9	31.0	26.95	0.76	23 27.68	27.71	-0.03
23	9-10	24 58.1	62.0	58.05	0.66	24 57.8	61.8	57.80	0.76	24 58.71	58.56	+0.15
24	9-10	25 18.6	22.7	18.65	0.66	25 18.5	22.4	18.45	0.75	25 19.31	19.20	+0.11
25	11	25 40.5	44.3	40.40	0.65	.....	.....	.....	.....	25 41.05	.....	.....
26	9-10	26 40.8	44.8	40.80	0.66	26 40.6	44.5	40.55	0.75	26 41.46	41.30	+0.16
27	9-10	27 40.9	44.6	40.75	0.64	27 40.5	44.4	40.45	0.75	27 41.39	41.20	+0.19
28	10-11	27 53.9	57.8	53.85	0.64	27 53.7	57.3	53.50	0.75	27 54.49	54.25	+0.24
29	10-11	28 7.8	11.8	7.80	0.64	28 7.6	11.6	7.60	0.75	28 8.44	8.35	+0.09
30	10-12	29 2.9	6.9	2.90	0.65	29 2.4	6.5	2.45	0.75	29 3.55	3.20	+0.35
31	..	.....	.....	.....	.....	29 8.8	12.8	8.80	0.75	29 9.55	.....	.....
32	10-11	30	34.1	30.10	0.64	30 29.7	33.7	29.70	0.74	30 30.74	30.44	+0.30
33	9-10	30 39.8	43.8	39.80	0.63	30 39.6	43.8	39.70	0.74	30 40.43	40.44	-0.01
34	9-10	30 42.5	46.7	42.60	0.64	30 42.4	46.3	42.35	0.74	30 43.24	43.09	+0.15
35	11	31 35.7	39.6	35.65	0.63	31	39.4	35.40	0.74	31 36.28	36.14	+0.14
36	11	31 37.2	41.2	37.20	0.63	.....	.....	.....	.....	31 37.83	.....	.....
37	9-10	33 3.2	7.3	3.25	0.62	33 3.2	7.3	3.25	0.74	33 3.87	3.99	-0.12
38	10	33 31.0	35.0	31.00	0.63	.....	.....	.....	.....	33 31.63	.....	.....
39	9-10	33 42.4	46.3	42.35	0.63	.....	.....	.....	.....	33 42.98	.....	.....
40	9-10	34 11.6	15.7	11.65	0.62	34 11.6	15.5	11.55	0.74	34 12.27	12.29	-0.02
41	11	34 22.1	25.8	21.95	0.63	.....	.....	.....	.....	34 22.58	.....	.....
42	11-12	34 50.7	54.6	50.65	0.63	.....	.....	.....	.....	34 51.28	.....	.....
43	11	35 55.8	59.6	55.70	0.62	.....	.....	.....	.....	35 56.32	.....	.....
44	10	36 19.2	23.1	19.15	0.62	.....	.....	.....	.....	36 19.77	.....	.....
45	9-10	5 36 34.1	38.0	34.05	+0.62	5 36 34.0	37.9	33.95	+0.74	5 36 34.67	34.69	-0.02

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +⁰ 50 to ¹ 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 160.	d.	Zone 162.	d.	Zone 160.	Zone 162.		
1	+ 5 11	+ 0.9	+ 5 22	- 8.8	+ 0 55 11.9	13.2	- 1.3	Comp., a., 6".
2	10 12	0.1	10 21	10.0	1 0 12.1	11.0	+ 1.1	
3	5 11	1.0	5 20	8.7	0 55 11.0	11.3	- 0.3	
4	3 30	1.3	3 38	8.3	0 53 31.3	29.7	+ 1.6	
5	5 52	1.0	6 2	8.8	0 55 53.0	53.2	- 0.2	
6	8 57	0.6	9 6	8.6	0 58 57.6	57.4	+ 0.2	
7	5 46	1.1	5 54	8.8	0 55 47.1	45.2	+ 1.9	
8	8 4	0.8	8 12	9.3	0 58 4.8	2.7	+ 2.1	
9	8 4	0.9	8 16	9.2	0 58 4.9	6.8	- 1.9	
10	5 57	1.2	6 8	8.7	0 55 58.2	59.3	- 1.1	
11	6 1	1.3	6 11	8.7	0 56 2.3	2.3	0.0	
12	8 41	0.9	8 51	9.3	0 58 41.9	41.7	+ 0.2	
13	3 42	1.7	3 51	8.1	0 53 43.7	42.9	+ 0.8	
14	9 10	0.9	9 17	9.4	0 59 10.9	7.6	+ 3.3	
15	9 4	0.9	9 14	9.3	0 59 4.9	4.7	+ 0.2	
16	9 39	0.9	9 48	9.4	0 59 39.9	38.6	+ 1.3	
17	7 39	1.3	....	...	0 57 40.3	....	...
18	2 14	2.2	2 23	7.5	0 52 16.2	15.5	+ 0.7	
19	9 45	1.1	9 54	9.3	0 59 46.1	44.7	+ 1.4	
20	0 26	2.6	0 38	6.9	0 50 28.6	31.1	- 2.5	
21	3 27	2.1	3 39	7.7	0 53 29.1	31.3	- 2.2	
22	10 30	1.0	10 38	9.4	1 0 31.0	28.6	+ 2.4	
23	7 9	1.8	7 19	8.4	0 57 10.8	10.6	+ 0.2	
24	5 5	2.1	5 16	7.9	0 55 7.1	8.1	- 1.0	
25	3 18	2.5	....	...	0 53 20.5	....	...
26	5 59	2.1	6 9	8.0	0 56 1.1	1.0	+ 0.1	
27	1 25	3.0	1 36	6.7	0 51 28.0	29.3	- 1.3	
28	0 40	3.1	0 50	6.5	0 50 43.1	43.5	- 0.4	
29	3 1	2.8	3 11	7.1	0 53 3.8	3.9	- 0.1	
30	6 13	2.4	6 26	7.8	0 56 15.4	18.2	- 2.8	
31	....	...	5 23	7.5	0 55	15.5	...
32	5 12	2.7	5 24	7.4	0 55 14.7	16.4	- 1.7	
33	2 51	3.1	3 3	6.5	0 52 54.1	56.5	- 2.4	
34	4 1	2.9	4 11	7.1	0 54 3.9	3.9	0.0	
35	3 23	3.2	3 34	6.8	0 53 26.2	27.2	- 1.0	
36	4 2	3.1	....	...	0 54 5.1	....	...
37	3 35	3.3	3 48	6.8	0 53 38.3	41.2	- 2.9	
38	6 12	3.0	....	...	0 56 15.0	....	...
39	7 58	2.7	....	...	0 58 0.7	....	...
40	3 28	3.5	....	...	0 53 31.5	....	...
41	7 2	2.9	....	...	0 57 4.9	....	...
42	8 21	3.0	....	...	0 58 24.0	....	...
43	6 11	3.2	....	...	0 56 14.2	....	...
44	6 56	3.2	....	...	0 56 59.2	....	...
45	+ 9 12	+ 2.9	+ 9 21	- 7.8	+ 0 59 14.9	13.2	+ 1.7	

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +⁰50 to ⁱ0.

Number of the Star.	Magnitude.	ZONE 160.					ZONE 162.					MEAN RIGHT ASCENSION. 1860.0				Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 160.		Zone 162.		
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.		
46	10	5 36 41.5	45.4	41.45	+0.59		5 36 41.3	45.2	41.25	+0.73		5 36 42.04	41.98	+0.06		
47	10	36 48.9	53.0	48.95	0.60		.....	.....	.....	.....		36 49.55	.....	.....
48	9-10	36 58.8	62.7	58.75	0.59		36 58.4	62.4	58.40	0.73		36 59.34	59.13	+0.21		
49	10-11	37 9.9	14.2	10.05	0.60		37	13.9	9.90	0.73		37 10.65	10.63	+0.02		
50	9-10	37 59.0	63.0	59.00	0.59		37 58.7	62.7	58.70	0.73		37 59.59	59.43	+0.16		
51	..	.....	.....	.....	.....		38 52.5	56.4	52.45	0.72		38	53.17	.....	
52	10	39 37.7	.....	37.70	0.58		39 37.5	.....	37.50	0.73		39 38.28	38.23	+0.05		
53	.....	.....	.....	.....	.....		39 39.1	42.9	39.00	0.73		39	39.73	.....	
54	9-10	39 41.3	45.3	41.30	0.58		39 41.1	45.1	41.10	0.73		39 41.88	41.83	+0.05		
55	.....	.....	.....	.....	.....		40 4.7	8.8	4.75	0.72		40	5.47	.....	
56	10	.....	.....	.....	.....		42 57.5	61.5	57.50	0.72		42	58.22	.....	
57	10	43	42.5	38.50	0.57		43 38.3	42.4	38.35	0.72		43 39.07	39.07	+0.00		
58	9-10	.....	.....	.....	.....		43 41.9	46.0	41.95	0.72		43	42.67	.....	
59	10	.....	.....	.....	.....		45 29.8	33.7	29.75	0.71		45	30.46	.....	
60	9-10	46 40.4	44.3	40.35	0.55		46 40.2	44.1	40.15	0.72		46 40.90	40.87	+0.03		
61	..	47 14.4	18.4	14.40	0.54		.....	.....	.....	.....		47 14.94	.....	.....
62	7	47 30.3	34.2	30.25	0.55		47 30.0	34.1	30.05	0.71		47 30.80	30.76	+0.04		
63	10-11	47 31.9	35.9	31.90	0.56		47 32.0	35.9	31.95	0.70		47 32.46	32.65	-0.19		
64	10-12	47 59.7	63.6	59.65	0.54		47 59.7	63.7	59.70	0.71		48 0.19	0.41	-0.22		
65	9-10	48 19.2	23.3	19.25	0.55		48 19.0	23.1	19.05	0.71		48 19.80	19.76	+0.04		
66	9-10	48 50.3	54.2	50.25	0.55		48 50.1	54.1	50.10	0.70		48 50.80	50.80	+0.00		
67	9-10	49 32.1	36.2	32.15	0.53		49 32.3	36.2	32.25	0.71		49 32.68	32.96	-0.28		
68	9-10	50 27.5	31.5	27.50	0.54		50 27.4	31.4	27.40	0.70		50 28.04	28.10	-0.06		
69	10	50 36.9	40.6	36.75	0.53		.....	.....	.....	.....		50 37.28	.....	.....
70	11	52 2.3	.....	2.30	0.52		.....	.....	.....	.....		52 2.82	.....	.....
71	11	52 11.0	14.9	10.95	0.52		.....	.....	.....	.....		52 11.47	.....	.....
72	10-11	52 37.5	41.3	37.40	0.55		52 37.4	41.6	37.50	0.70		52 37.95	38.20	-0.25		
73	10-11	53 31.0	34.8	30.90	0.54		.....	.....	.....	.....		53 31.44	.....	.....
74	10	53 40.3	44.1	40.20	0.53		.....	.....	.....	.....		53 40.73	.....	.....
75	10	54 46.2	50.1	46.15	0.53		.....	.....	.....	.....		54 46.68	.....	.....
76	10-9	54 59.9	63.9	59.90	0.52		.....	.....	.....	.....		55 0.42	.....	.....
77	9-11	56 10.5	14.5	10.50	0.52		.....	.....	.....	.....		56 11.02	.....	.....
78	10-11	56 36.2	.....	36.20	0.52		.....	.....	.....	.....		56 36.72	.....	.....
79	10-11	56 39.5	.....	39.50	0.53		.....	.....	.....	.....		56 40.03	.....	.....
80	10-12	57 19.4	23.4	19.40	0.54		.....	.....	.....	.....		57 19.94	.....	.....
81	9-10	57 26.6	30.4	26.50	0.51		.....	.....	.....	.....		57 27.01	.....	.....
82	9-10	57 53.4	57.6	53.50	0.52		.....	.....	.....	.....		57 54.02	.....	.....
83	8-9	57 55.0	59.0	55.00	0.52		.....	.....	.....	.....		57 55.52	.....	.....
84	10-11	58 27.4	31.5	27.45	0.52		.....	.....	.....	.....		58 27.97	.....	.....
85	10-11	58 51.6	55.6	51.60	0.52		.....	.....	.....	.....		58 52.12	.....	.....
86	9	59 9.8	13.8	9.80	0.52		.....	.....	.....	.....		59 10.32	.....	.....
87	9-10	59 39.0	42.8	38.90	0.50		59 38.8	42.8	38.80	0.70		59 39.40	39.50	-0.10		
88	9-10	5 59 44.2	48.3	44.25	0.51		5 59 44.2	48.1	44.15	0.70		5 59 44.76	44.85	-0.07		
89	10-11	6 0	15.3	11.30	0.51		6 0 11.2	15.1	11.15	0.70		6 0 11.81	11.85	-0.04		
90	9-10	6 0 53.2	57.3	53.25	+0.51		6 0 53.2	57.1	53.15	+0.69		6 0 53.76	53.84	-0.08		

A.R. $\overset{h.}{5} \overset{m.}{15}$ to $\overset{h.}{7} \overset{m.}{10}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 180.	d.	Zone 182.	d.	Zone 180.	Zone 182.		
46	+ 4 31	+ 3.6	+ 4 42	- 6.7	+ 0 54 34.6	35.3	- 0.7	
47	0 59	4.2	....	...	0 51 3.2	....	...
48	3 33	3.8	3 43	6.4	0 53 36.8	36.6	+ 0.2	
49	0 56	4.3	1 6	5.7	0 51 0.3	0.3	0.0	
50	4 18	3.9	4 30	6.5	0 54 21.9	23.5	- 1.6	
51	....	...	2 37	6.0	0 52	31.0	...	
52	4 32	4.0	4 42	6.4	0 54 36.0	35.6	+ 0.4	
53	....	...	6 34	6.9	0 56	27.1	...	
54	4 38	4.0	4 48	6.4	0 54 42.0	41.6	+ 0.4	
55	....	...	....	...	.....	....	...
56	....	...	4 39	6.1	0 54	32.1	...	
57	4 7	4.6	4 16	5.9	0 54 11.6	10.1	+ 1.5	
58	....	...	7 59	6.8	0 57	52.2	...	
59	....	...	4 35	5.8	0 54	29.2	...	
60	7 40	4.4	7 39	6.4	0 57 44.4	32.6	+11.8	
61	9 11	4.2	....	...	0 59 15.2	....	...
62	6 17	4.7	6 26	6.1	0 56 21.7	19.9	+ 1.8	
63	0 4	5.6	0 18	4.5	0 50 9.6	13.5	- 3.9	
64	7 39	4.5	7 51	6.4	0 57 43.5	44.6	- 1.1	
65	2 1	5.5	2 12	4.9	0 52 6.5	7.1	- 0.6	
66	1 28	5.6	1 40	4.7	0 51 33.6	35.3	- 1.7	
67	10 0	4.3	10 8	6.8	1 0 4.3	1.2	+ 3.1	
68	2 16	5.7	2 28	4.8	0 52 21.7	23.2	- 1.5	
69	10 16	4.4	....	...	1 0 20.4	....	...
70	9 36	4.7	....	...	0 59 40.7	....	...
71	9 38	4.7	....	...	0 59 42.7	....	...
72	8 16	5.0	....	...	0 58 21.0	....	...
73	2 27	6.0	2 39	4.6	0 52 33.0	34.4	- 1.4	
74	5 42	5.4	5 51	5.3	0 55 47.4	45.7	+ 1.7	
75	1 25	6.4	1 38	4.2	0 51 31.4	33.8	- 2.4	
76	8 15	5.3	8 23	5.8	0 58 20.3	17.2	+ 3.1	Comp., s. f.
77	4 56	5.9	5 6	4.9	0 55 1.9	1.1	+ 0.8	
78	5 28	5.9	....	...	0 55 33.9	....	...
79	2 8	6.5	....	...	0 52 14.5	....	...
80	6 29	5.8	6 41	5.2	0 56 34.8	35.8	- 1.0	
81	7 15	5.7	7 25	5.4	0 57 20.7	19.6	+ 1.1	
82	2 50	6.5	3 2	4.2	0 52 56.5	57.8	- 1.3	
83	2 18	6.6	2 26	4.1	0 52 24.6	21.9	+ 2.7	
84	3 22	6.5	3 34	4.3	0 53 28.5	29.7	- 1.2	
85	3 40	6.5	3 49	4.4	0 53 46.5	44.6	+ 1.9	
86	2 22	6.7	2 35	4.0	0 52 28.7	31.0	- 2.3	
87	9 18	5.7	9 30	5.7	0 59 23.7	24.3	- 0.6	
88	5 8	6.3	5 21	4.7	0 55 14.3	16.3	- 2.0	
89	5 26	6.4	5 38	4.7	0 55 32.4	33.3	- 0.9	
90	+ 4 42	+ 6.6	+ 4 55	- 4.4	+ 0 54 48.6	50.6	- 2.0	

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +^o50 to ^o10.

Number of the Star.	Magnitude.	ZONE 160.					ZONE 162.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 160.		Zone 162.	
		h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.	
91	11-12	6 1 13.7	....	13.70	+0.50		.....	.....	.....	.....		6 1 14.20	.....	.....
92	11-12	1 17.0	21.1	17.05	0.51		.....	.....	.....	.....		1 17.56	.....	.....
93	10	2 1.5	5.6	1.55	0.49		6 2 1.4	5.7	1.55	+0.70		2 2.04	2.25	-0.19	
94	8-9	2 33.0	37.0	33.00	0.49		2 32.8	36.8	32.80	0.70		2 33.49	33.50	-0.01	
95	9-10	3 37.2	41.2	37.20	0.49		3 36.8	40.8	36.80	0.70		3 37.69	37.50	+0.19	
96	9	4 1.1	5.1	1.10	0.49		4 1.1	5.0	1.05	0.69		4 1.59	1.74	-0.15	
97	10	4 10.8	....	10.80	0.49		.....	.....	.....	.....		4 11.29	.....	.....
98	9	4 11.3	15.2	11.25	0.48		4 11.2	15.1	11.15	0.69		4 11.73	11.84	-0.11	
99	10	4 39.3	43.1	39.20	0.50		4 39.1	43.0	39.05	0.68		4 39.70	39.73	-0.03	
100	10-11	4 40.5	44.6	40.55	0.50		4 40.4	44.4	40.40	0.68		4 41.05	41.08	-0.03	
101	9-10	5 6.1	10.2	6.15	0.49		5 5.9	10.0	5.95	0.69		5 6.64	6.64	0.00	
102	10	5 13.1	17.0	13.05	0.49		5 12.6	16.6	12.60	0.69		5 13.54	13.29	+0.25	
103	9-10	5 22.2	26.2	22.20	0.50		5 27.1	26.0	22.05	0.68		5 22.70	22.73	-0.03	
104	10-11	6 24.4	28.4	24.40	0.48		6 24.1	28.1	24.10	0.68		6 24.88	24.78	+0.10	
105	9-10	6 34.5	38.5	34.50	0.47		6 34.5	38.3	34.40	0.69		6 34.97	35.09	-0.12	
106	9-10	7 5.5	9.6	5.55	0.47		7 5.4	9.5	5.45	0.69		7 6.02	6.14	-0.12	
107	9-10	7 12.3	16.5	12.40	0.48		7 12.0	16.2	12.10	0.68		7 12.88	12.78	+0.10	
108	9-10	7 32.6	36.5	32.55	0.47		7 32.3	36.2	32.25	0.68		7 33.02	32.93	+0.09	
109	8-9	8 18.5	22.4	18.45	0.48		8 18.3	22.3	18.30	0.68		8 18.93	18.98	-0.05	
110	9-10	8 51.5	55.4	51.45	0.47		8 51.5	55.3	51.40	0.68		8 51.92	52.08	-0.16	
111	9-10	8 54.9	58.8	54.85	0.48		8 54.7	58.5	54.60	0.67		8 55.33	55.27	+0.06	
112	10-11	9 17.5	21.3	17.40	0.48		9 17.2	20.9	17.05	0.67		9 17.88	17.72	+0.16	
113	9-10	9 54.6	58.6	54.60	0.47		9 54.2	58.3	54.25	0.68		9 55.07	54.93	+0.14	
114	9-10	10 21.0	25.1	21.05	0.47		10 21.1	24.9	21.00	0.67		10 21.52	21.67	-0.15	
115	10	10 24.1	28.2	24.15	0.48		.....	.....	.....	.....		10 24.63	.....	.....
116	11-12	11 16.1	20.1	16.10	0.46		11 15.9	19.5	15.70	0.67		11 16.56	16.37	+0.19	
117	.....	.....	.....	.....	.....		11 18.7	22.9	18.80	0.67		11 19.47	.....	.....
118	11-12	11 48.8	52.5	48.65	0.47		.....	.....	.....	.....		11 49.12	.....	.....
119	9-10	12 55.0	59.0	55.00	0.46		12 54.7	58.8	54.75	0.67		12 55.46	55.42	+0.04	
120	9-10	13 12.4	16.4	12.40	0.45		13 12.0	16.0	12.00	0.67		13 12.85	12.67	+0.18	
121	10	13 19.6	23.4	19.50	0.46		13 19.3	23.2	19.25	0.67		13 19.96	19.92	+0.04	
122	..	13 35.3	39.3	35.30	0.46		13 35.1	39.1	35.10	0.67		13 35.76	35.77	-0.01	
123	10	13 48.3	52.4	48.35	0.46		13 48.0	52.2	48.10	0.67		13 48.81	48.77	+0.04	
124	10	14 59.3	63.2	59.25	0.46		14 59.1	....	59.10	0.66		14 59.71	59.76	-0.05	
125	..	15 37.8	41.8	37.80	0.45		.....	.....	.....	.....		15 38.25	.....	.....
126	9	15 59.5	63.4	59.45	0.44		15 59.5	63.1	59.30	0.67		15 59.89	59.97	-0.08	
127	9-10	16 5.0	8.9	4.95	0.44		16 4.8	8.7	4.75	0.67		16 5.39	5.42	-0.03	
128	9-10	16 13.9	17.8	13.85	0.45		16 13.7	17.7	13.70	0.66		16 14.30	14.36	-0.06	
129	11	17 6.0	9.7	5.85	0.45		.....	.....	.....	.....		17 6.30	.....	.....
130	9-10	17 29.3	33.3	29.30	0.43		17 29.1	33.1	29.10	0.66		17 29.73	29.76	-0.03	
131	11	17 40.6	44.6	40.60	0.43		17 40.6	44.6	40.60	0.43		17 41.03	.....	.....
132	8	18 38.1	42.1	38.10	0.44		18 37.9	41.9	37.90	0.66		18 38.54	38.56	-0.02	
133	10	19 29.5	33.3	29.40	0.44		.....	.....	.....	.....		19 29.84	.....	.....
134	9-10	19 39.4	43.5	39.45	0.43		19 39.2	43.2	39.20	0.66		19 39.88	39.86	+0.02	
135	8-9	6 19 45.3	49.3	45.30	+0.43		6 19 45.2	49.1	45.15	+0.66		6 19 45.73	45.81	-0.08	

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 180.	d.	Zone 182.	d.	Zone 180.	Zone 182.		
91	+ 5 52	+ 6.4	....	...	+ 0 55 58.4	....	...
92	2 14	7.0	....	...	0 52 21.0	....	...
93	9 14	6.0	+ 9 26	- 5.5	0 59 20.0	20.5	- 0.5	
94	10 4	5.9	10 14	5.6	1 0 9.9	8.4	+ 1.5	
95	9 48	6.1	9 59	5.4	0 59 54.1	53.6	+ 0.5	
96	8 9	6.4	8 16	5.0	0 58 15.4	11.0	+ 4.4	
97	5 7	6.9	....	...	0 55 13.9	....	...
98	9 39	6.2	9 48	5.3	0 59 45.2	42.7	+ 2.5	
99	2 38	7.4	2 50	3.5	0 52 45.4	46.5	- 1.1	
100	2 14	7.5	2 24	3.4	0 52 21.5	20.6	+ 0.9	
101	6 25	6.8	6 36	4.4	0 56 31.8	31.6	+ 0.2	
102	6 4	6.9	6 12	4.3	0 56 10.9	8.7	+ 2.2	
103	1 54	7.6	2 7	3.3	0 52 1.6	3.7	- 2.1	
104	5 5	7.2	5 13	4.0	0 55 12.2	9.0	+ 3.2	
105	10 8	6.4	10 19	5.2	1 0 14.4	13.8	+ 0.6	
106	10 28	6.4	10 38	5.2	1 0 34.4	32.8	+ 1.6	
107	3 44	7.5	3 52	3.5	0 53 51.5	48.5	+ 3.0	
108	9 46	6.6	9 51	5.0	0 59 52.6	46.0	+ 6.6	
109	2 27	7.9	2 39	3.1	0 52 34.9	35.9	- 1.0	
110	5 4	7.5	5 12	3.7	0 55 11.5	8.3	+ 3.2	
111	0 40	8.3	0 50	2.6	0 50 48.3	47.4	+ 0.9	
112	1 11	8.2	1 22	2.7	0 51 19.2	19.3	- 0.1	
113	6 51	7.4	7 1	4.1	0 56 58.4	56.9	+ 1.5	
114	5 10	7.7	5 21	3.6	0 55 17.7	17.4	+ 0.3	
115	2 21	8.2	....	...	0 52 29.2	....	...
116	5 51	7.7	6 1	3.7	0 55 58.7	57.3	+ 1.4	
117	....	...	5 59	3.7	0 55	55.3	...	
118	1 8	8.5	....	...	0 51 16.5	....	...
119	5 54	7.9	6 6	3.6	0 56 1.9	2.4	- 0.5	
120	8 18	7.6	8 30	4.1	0 58 25.6	25.9	- 0.3	
121	2 50	8.5	....	...	0 52 58.5	....	...
122	....	...	5 6	3.3	0 55	2.7	...	
123	4 18	8.3	4 28	3.1	0 54 26.3	24.9	+ 1.4	
124	0 27	9.1	0 42	2.0	0 50 36.1	40.0	- 3.9	
125	5 14	8.4	....	...	0 55 22.4	....	...
126	7 30	8.1	9 29	4.1	0 59 21.9	24.9	- 3.0	Zone (b) probably right.
127	6 58	8.2	7 8	3.5	0 57 6.2	4.5	+ 1.7	
128	1 34	9.1	1 48	2.2	0 51 43.1	45.8	- 2.7	
129	....	...	....	...	0 50 ....	....	...
130	8 45	8.1	8 56	3.8	0 58 53.1	52.2	+ 0.9	
131	7 47	8.3	....	...	0 57 55.3	....	...
132	3 16	9.1	3 28	2.4	0 53 25.1	25.6	- 0.5	
133	0 58	9.6	....	...	0 51 7.6	....	...
134	4 11	9.1	4 25	2.5	0 54 20.1	22.5	- 2.4	
135	+ 5 8	+ 9.0	+ 5 20	- 2.8	+ 0 55 17.0	17.2	- 0.2	

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +^o50 to ⁱ6.

Number of the Star.	Magnitude.	ZONE 160.				ZONE 162.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 160.	Zone 162.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	
136	10	6 19 56.1	59.9	56.00	+0.43	6 19 ....	....	....	....	6 19 56.43	....	....
137	10	20 20.4	24.3	20.35	0.44	.....	....	....	....	20 20.79	....	....
138	11-12	20 45.1	49.0	45.05	0.44	.....	....	....	....	20 45.49	....	....
139	11	21 27.6	31.5	27.55	0.44	.....	....	....	....	21 27.99	....	....
140	..	.....	....	....	....	21 32.3	36.5	32.40	+0.65	21	33.05	....
141	9-10	22 54.8	58.7	54.75	0.43	22 54.6	58.6	54.60	0.65	22 55.18	55.25	-0.07
142	9-10	22	60.9	56.90	0.42	22 56.9	60.7	56.80	0.65	22 57.32	57.45	-0.13
143	9-10	23 44.2	48.1	44.15	0.41	23 44.1	....	44.10	0.65	23 44.56	44.75	-0.19
144	9-10	23 45.6	49.5	45.55	0.41	23	49.6	45.60	0.65	23 45.96	46.25	-0.29
145	10	24 3.1	7.1	3.10	0.41	24 3.2	7.0	3.10	0.65	24 3.51	3.75	-0.24
146	9-10	24 22.3	26.1	22.20	0.40	24 22.3	26.2	22.25	0.65	24 22.60	22.90	-0.30
147	....	.....	....	....	....	24	58.4	54.40	0.64	24	55.04	....
148	9-10	25	10.4	6.40	0.42	.....	....	....	....	25 6.82	....	....
149	10	25 29.0	33.0	29.00	0.42	.....	....	....	....	25 29.42	....	....
150	10	25 59.1	63.2	59.15	0.39	.....	....	....	....	25 59.54	....	....
151	10	26 8.8	12.7	8.75	0.41	.....	....	....	....	26 9.16	....	....
152	9-10	26 56.6	60.6	56.60	0.40	26 56.3	60.3	56.30	0.64	26 57.00	56.94	+0.06
153	10-11	27 18.0	22.0	18.00	0.39	27 17.9	21.9	17.90	0.64	27 18.39	18.54	-0.15
154	11	27 55.7	59.7	55.70	0.39	27 55.6	....	55.60	0.64	27 56.09	56.24	-0.15
155	7-8	28 2.2	6.0	2.10	0.37	28 2.0	5.9	1.95	0.64	28 2.47	2.59	-0.12
156	10	28 16.8	20.7	16.75	0.40	28 16.7	20.6	16.75	0.64	28 17.15	17.39	-0.24
157	9-10	28 38.8	42.8	38.80	0.39	28 38.7	42.8	38.75	0.64	28 39.19	39.39	-0.20
158	10	28 50.6	54.4	50.50	0.40	28	54.4	50.40	0.63	28 50.90	51.03	-0.13
159	10	28 59.3	63.6	59.45	0.40	.....	....	....	....	28 59.85	....	....
160	11	29 29.4	33.5	29.45	0.40	29 29.3	33.2	29.25	0.63	29 29.85	29.88	-0.03
161	10	29 55.0	58.8	54.90	0.39	29 54.8	58.6	54.70	0.64	29 55.29	55.34	-0.05
162	10-11	30 7.7	11.7	7.70	0.40	30 7.7	11.5	7.60	0.64	30 8.10	8.24	-0.14
163	10	30 31.8	35.7	31.75	0.40	30 31.7	35.6	31.65	0.64	30 32.15	32.29	-0.14
164	11	30 57.5	61.2	57.35	0.39	30 57.4	61.2	57.30	0.64	30 57.74	57.94	-0.20
165	9-10	31 14.4	18.4	14.40	0.38	31 14.3	18.1	14.20	0.63	31 14.78	14.83	-0.05
166	10-12	32 5.0	8.9	4.95	0.38	32 4.7	8.7	4.70	0.63	32 5.33	5.33	0.00
167	10-11	32 40.2	44.3	40.25	0.38	.....	....	....	....	32 40.63	....	....
168	10	33 1.9	5.8	1.85	0.38	33 1.5	5.5	1.50	0.63	33 2.23	2.13	+0.10
169	9-11	33 8.0	12.0	8.00	0.37	33 7.7	11.7	7.70	0.63	33 8.37	8.33	+0.04
170	9-10	33 25.0	29.0	25.00	0.39	33 ....	....	....	....	33 25.39	....	....
171	9-10	33 30.5	....	30.50	0.39	33 30.7	34.5	30.60	0.63	33 30.89	31.23	-0.34
172	11	34 11.8	15.7	11.75	0.37	34 11.6	15.2	11.40	0.63	34 12.12	12.03	+0.09
173	10-11	34 37.5	41.4	37.45	0.38	34 37.2	41.2	37.20	0.62	34 37.83	37.82	+0.01
174	10-11	36 16.3	20.2	16.25	0.37	36 16.1	....	16.10	0.62	36 16.62	16.72	-0.10
175	10-11	36 17.1	21.0	17.05	0.37	36	20.8	16.80	0.62	36 17.42	17.42	0.00
176	10	36 30.6	34.7	30.65	0.37	36 30.4	34.3	30.35	0.62	36 31.02	30.97	+0.05
177	10-11	36 59.2	63.1	59.15	0.38	36 59.0	62.9	58.95	0.62	36 59.53	59.57	-0.04
178	10-11	37 5.4	9.4	5.40	0.38	.....	....	....	....	37 5.78	....	....
179	9	37 29.4	33.2	29.30	0.37	6 37 29.0	33.0	29.00	+0.62	37 29.67	29.62	+0.05
180	10	6 37 42.1	45.8	41.95	+0.36	.....	....	....	....	6 37 42.31	....	....

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 160.	d.	Zone 162.	d.	Zone 160.	Zone 162.		
136	+ 3 34	+ 9.1	....	...	+ 0 53 43.1	....	...
137	1 40	9.5	....	...	0 51 49.5	....	...
138	0 45	9.7	....	...	0 50 54.7	....	...
139	0 38	9.8	....	...	0 50 47.8	....	...
140	....	...	....	...	.....	....	...
141	1 49	9.8	+ 2 2	- 1.6	0 51 58.8	60.4	- 1.6	
142	8 12	8.8	8 22	3.2	0 58 20.8	18.8	+ 2.0	
143	5 39	9.3	5 49	2.5	0 55 48.3	46.5	+ 1.8	
144	9 18	8.7	9 28	3.4	0 59 26.7	24.6	+ 2.1	
145	4 9	9.6	4 19	2.1	0 54 18.6	16.9	+ 1.7	
146	5 7	9.5	5 16	2.3	0 55 16.5	13.7	+ 2.8	
147	....	...	4 30	2.0	0 54	28.0	...	
148	1 3	10.2	....	...	0 51 13.2	....	...
149	0 31	10.3	....	...	0 50 41.3	....	...
150	7 50	9.2	....	...	0 57 59.2	....	...
151	2 21	10.2	....	...	0 52 31.2	....	...
152	8 32	9.2	8 42	2.9	0 58 41.2	39.1	+ 2.1	
153	9 21	9.2	9 31	3.0	0 59 30.2	28.0	+ 2.2	
154	6 52	9.6	7 4	2.4	0 57 1.6	1.6	0.0	
155	9 45	9.2	9 36	3.0	0 59 54.2	33.0	+21.2	
156	5 3	10.0	5 12	1.9	0 55 13.0	10.1	+ 2.9	
157	7 26	9.6	7 37	2.4	0 57 35.6	34.6	+ 1.0	
158	1 8	10.7	1 20	0.8	0 51 18.7	19.2	- 0.5	
159	2 3	10.5	....	...	0 52 13.5	....	...
160	2 38	10.5	2 49	1.2	0 52 48.5	47.8	+ 0.7	
161	5 9	10.2	5 19	1.7	0 55 19.2	17.3	+ 1.9	
162	1 20	10.8	1 32	0.8	0 51 30.8	31.2	- 0.4	
163	1 57	10.7	2 8	0.9	0 52 7.7	7.1	+ 0.6	
164	2 48	10.7	3 1	1.1	0 52 58.7	59.9	- 1.2	
165	6 0	10.2	6 9	1.8	0 56 10.2	7.2	+ 3.0	
166	9 0	9.8	9 9	2.5	0 59 9.8	6.5	+ 3.3	
167	9 2	9.8	....	...	0 59 11.8	....	...
168	5 17	10.5	5 31	1.5	0 55 27.5	29.5	- 2.0	
169	+ 8 50	10.0	8 2	2.3	0 57 60.0	59.7	+ 0.3	Zone (b) probably right.
170	- 0 3	11.4	....	...	0 50 8.4	....	...
171	+ 2 8	11.1	2 20	0.6	0 52 19.1	19.4	- 0.3	
172	8 39	10.1	8 53	2.2	0 58 49.1	50.8	- 1.7	
173	2 40	11.1	2 54	0.5	0 52 51.1	53.5	- 2.4	
174	6 56	10.6	7 7	1.5	0 57 6.6	5.5	+ 1.1	
175	4 54	11.0	5 8	1.1	0 55 5.0	6.9	- 1.9	
176	5 50	11.0	6 2	1.3	0 56 1.0	0.7	+ 0.3	
177	1 43	11.6	1 56	0.2	0 51 54.6	55.8	- 1.2	
178	1 37	11.6	....	...	0 51 48.6	....	...
179	6 10	10.9	+ 6 22	- 1.2	0 56 20.9	20.8	+ 0.1	
180	+ 9 4	+10.5	....	...	+ 0 59 14.5	....	...

ZONE OBSERVATIONS.

A.R. ^{h.} 5 ^{m.} 15 to ^{h.} 7 ^{m.} 10.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 169.						ZONE 162.						MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	L.	First Wire.			Second Wire.	Mean red. to 1st Wire.	L.	Zone 160.		Zone 162.			
		h.	m.	s.	s.	s.		h.	m.	s.	s.	s.		s.	h.	m.	s.	s.	
181	10	6	38	3.8	7.8	3.80	+0.36	6	38	3.5	7.4	3.45	+0.61	6	38	4.16	4.06	+0.10	
182	11-12		38	43.0	46.8	42.90	0.37		38	42.7	46.7	42.70	0.61		38	43.27	43.31	-0.04	
183	8		38	57.8	61.9	57.85	0.37		38	57.6	61.5	57.55	0.61		38	58.22	58.16	+0.06	
184	9-10		39	5.4	9.3	5.35	0.35		39	5.2	9.3	5.25	0.60		39	5.70	5.85	-0.15	
185	10		39	51.1	55.1	51.10	0.37		.....	.....	.....	.....			39	51.47	.....	.....
186	9-10		40	11.0	15.0	11.00	0.37		40	10.5	14.4	10.45	0.61		40	11.37	11.06	+0.31	
187	9-10		40	17.2	21.2	17.20	0.37		40	17.1	20.0	17.05	0.61		40	17.57	17.66	-0.09	
188	9-10		40	43.8	47.8	43.80	0.36		40	43.4	47.6	43.50	0.60		40	44.16	44.10	+0.06	
189	11-12		41	43.0	47.0	43.00	0.36		.....	.....	.....	.....			41	43.36	.....	.....
190	9-10		42	11.0	14.9	10.95	0.35		42	10.8	14.6	10.70	0.60		42	11.30	11.30	0.00	
191	9		42	24.8	28.9	24.85	0.35		42	24.5	28.3	24.40	0.60		42	25.20	25.00	+0.20	
192	9-10		42	40.6	44.4	40.50	0.35		42	40.2	44.1	40.15	0.60		42	40.85	40.75	+0.10	
193	9		42	51.7	55.7	51.70	0.35		42	51.2	55.3	51.25	0.60		42	52.05	51.85	+0.20	
194	11		44	22.1	26.1	22.10	0.35		.....	.....	.....	.....			44	22.45	.....	.....
195	9		44	29.3	33.2	29.25	0.34		44	28.9	32.9	28.90	0.59		44	29.59	29.49	+0.10	
196	....		45	15.8	19.5	15.65	0.34		45	15.4	19.5	15.45	0.59		45	15.99	16.04	-0.05
197	....		45	39.8	43.7	39.75	0.34		45	39.6	43.6	39.60	0.59		45	40.09	40.19	-0.10
198	....		46	3.3	7.5	3.40	0.33		46	3.4	7.3	3.35	0.59		46	3.73	3.92	-0.19
199	10-11		46	35.7	39.8	35.75	0.33		46	35.6	39.5	35.55	0.59		46	36.08	36.14	-0.06	
200	....		.....	.....	.....	.....	.....		47	42.0	.....	42.00	0.59		47	.....	42.59	.....
201	..		.....	.....	.....	.....	.....		47	48.8	52.7	48.75	0.59		47	.....	49.34	.....
202	10		.....	.....	.....	.....	.....		48	3.3	7.0	3.15	0.59		48	.....	3.74	.....
203	11		.....	.....	.....	.....	.....		48	10.5	14.4	10.45	0.58		48	.....	11.03	.....
204	11		.....	.....	.....	.....	.....		48	31.1	35.2	31.15	0.58		48	.....	31.73	.....
205	9-10		49	9.0	12.9	8.95	0.32		49	8.8	12.6	8.70	0.58		49	9.27	9.28	-0.01	
206	9		49	34.4	38.3	34.35	0.31		49	34.0	38.0	34.00	0.58		49	34.66	34.58	+0.08	
207	11		49	55.7	59.5	55.60	0.33		49	....	59.4	55.40	0.59		49	55.93	55.99	-0.06
208	9-10		50	9.5	13.4	9.45	0.31		50	9.2	13.2	9.20	0.58		50	9.76	9.78	-0.02	
209	10-11		50	59.2	63.3	59.25	0.32		50	59.1	63.0	59.05	0.58		50	59.57	59.63	-0.06	
210	10-11		52	....	33.7	29.70	0.32		52	29.6	33.7	29.65	0.58		52	30.02	30.23	-0.21
211	10-11		53	52.3	56.1	52.20	0.31		53	52.0	55.9	51.95	0.58		53	52.51	52.53	-0.02	
212	11-12		55	....	25.7	21.70	0.29		55	21.5	25.5	21.50	0.57		55	21.99	22.07	-0.08
213	11		55	35.4	....	35.40	0.29		55	35.2	39.3	35.25	0.57		55	35.69	35.82	-0.13
214	11		55	....	41.8	37.80	0.30		55	37.6	41.5	37.55	0.57		55	38.10	38.12	-0.02
215	10		56	39.6	43.9	39.75	0.30		56	39.3	43.3	39.30	0.57		56	40.05	39.87	+0.18	
216	11-12		57	13.7	17.9	13.80	0.29		57	....	17.7	13.70	0.57		57	14.09	14.27	-0.18
217	..		.....	.....	.....	.....	.....		57	31.6	35.8	31.70	0.57		57	.....	32.27	.....
218	..		.....	.....	.....	.....	.....		58	18.4	22.5	18.45	0.57		58	.....	19.02	.....
219	11	6	59	26.4	30.3	26.35	0.27		6	59	26.1	30.1	26.10	0.56	6	59	26.62	26.66	-0.04
220	10	7	2	2.3	6.2	2.25	0.27		7	2	1.9	6.0	1.95	0.56	7	2	2.52	2.51	+0.01
221	10-11		2	45.2	49.0	45.10	0.28		2	44.9	48.9	44.90	0.57		2	45.38	45.47	-0.09	
222	9-10		2	46.3	50.1	46.20	0.26		2	46.1	50.0	46.05	0.56		2	46.46	46.61	-0.15	
223	10		3	23.6	27.8	23.70	0.26		3	23.7	27.7	23.70	0.56		3	23.96	24.26	-0.30	
224	9-10		3	35.2	39.0	35.10	0.27		3	35.0	38.8	34.90	0.56		3	35.37	35.46	-0.09	
225	9-10	7	3	44.0	47.8	43.90	+0.27		7	3	43.8	47.6	43.70	+0.56	7	3	44.17	44.26	-0.09

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 160.	d.	Zone 162.	d.	Zone 160.	Zone 162.		
181	+ 5 34	+11.1	+ 5 48	- 1.0	+ 0 55 45.1	47.0	- 1.9	
182	4 23	11.3	4 33	0.7	0 54 34.3	32.3	+ 2.0	
183	3 18	11.5	3 32	0.4	0 53 29.5	31.6	- 2.1	
184	9 52	10.5	10 4	- 2.1	1 0 2.5	1.9	+ 0.6	
185	0 15	12.1	....	...	0 50 27.1	....	...
186	0 43	12.1	0 56	+ 0.4	0 50 55.1	56.4	- 1.3	
187	0 21	12.2	0 33	+ 0.5	0 50 33.2	33.5	- 0.3	
188	5 35	11.4	5 38	- 0.8	0 55 46.4	37.2	+ 9.2	
189	2 6	12.1	....	...	0 52 18.1	....	...
190	3 11	12.0	3 21	0.0	0 53 23.0	21.0	+ 2.0	
191	3 29	12.0	3 41	0.1	0 53 41.0	40.9	+ 0.1	
192	3 0	12.1	3 11	0.0	0 53 12.1	11.0	+ 1.1	
193	4 38	11.8	5 1	0.4	0 54 49.8	60.6	-10.8	
194	1 ..	12.6	....	...	0 51 8.4	....	...	Declination, doubtful, = 30".
195	6 58	11.7	....	...	0 57 9.7	....	...
196	....	....	8 9	1.0	0 58	8.0	...	
197	6 41	11.9	6 59	0.6	0 56 52.9	58.4	- 5.5	
198	....	....	8 8	- 0.9	0 58	7.1	...	
199	....	....	4 21	+ 0.1	0 54	21.1	...	
200	....	....	8 40	- 0.9	0 58	39.1	...	
201	....	....	7 19	0.5	0 57	18.5	...	
202	....	....	8 27	0.8	0 58	26.2	...	
203	....	....	9 13	1.0	0 59	12.0	...	
204	....	....	9 38	1.0	0 59	37.0	...	
205	7 52	12.1	8 6	0.8	0 58 4.1	5.2	- 1.1	
206	8 46	12.0	8 57	- 1.0	0 58 58.0	56.0	+ 2.0	
207	0 27	13.4	0 50	+ 1.2	0 50 40.4	51.3	-10.9	
208	9 18	12.0	9 28	- 0.8	0 59 30.0	27.2	+ 2.8	
209	5 41	12.7	5 52	+ 0.1	0 55 53.7	52.1	+ 1.6	
210	2 1	13.5	1 8	1.5	0 52 14.5	9.5	+ 5.0	
211	1 14	13.8	1 25	+ 0.5	0 51 27.8	25.5	+ 2.3	
212	9 1	12.7	....	...	0 59 13.7	....	...
213	8 37	11.8	8 37	- 0.1	0 58 48.8	36.9	+11.9	
214	4 8	13.5	4 19	+ 1.0	0 54 21.5	20.0	+ 1.5	
215	4 7	13.6	4 18	1.1	0 54 20.6	19.1	+ 1.5	
216	3 30	13.8	3 48	0.3	0 53 43.8	48.3	- 4.5	
217	....	....	3 18	+ 1.4	0 53	19.4	...	
218	....	....	....	...	....	....	...
219	10 6	13.0	10 20	- 0.1	1 0 19.0	19.9	- 0.9	
220	5 55	14.0	6 7	+ 1.2	0 56 9.0	8.2	+ 0.8	
221	1 52	13.7	2 3	2.3	0 52 5.7	5.3	+ 0.4	
222	7 25	13.8	7 37	0.8	0 57 38.8	37.8	+ 1.0	
223	9 ..	....	9 31	0.4	0 59	31.4	...	
224	4 56	14.4	5 6	1.5	0 55 10.4	7.5	+ 2.9	
225	+ 2 26	+14.8	+ 2 49	+ 2.2	+ 0 52 40.8	51.2	-10.4	Zone (a) probably correct.

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. [°]+0 [']50 to [°]1 [']0.

Number of the Star.	Magnitude.	ZONE 160.						ZONE 162.						MEAN RIGHT ASCENSION. 1860.0				Difference.	
		First Wire.			Second Wire.	Mean red. to 1st Wire.		k.	First Wire.			Second Wire.	Mean red. to 1st Wire.		k.	Zone 160.			Zone 162.
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.		s.
226	10	7	4	51.1	55.0	51.05	+0.26	7	4	50.7	54.7	50.70	+0.56	7	4	51.31	51.26	+0.05	
227	..			.....	.....	.....	.....	4	.....	59.1	55.10	0.56	.....	4	.....	55.56	.....	.....
228	10		5	1.3	5.3	1.30	0.27	5	....	5.2	1.20	0.56	.....	5	1.57	1.76	-0.19	.....
229	9-10		5	35.0	38.8	34.90	0.26	5	34.8	38.7	34.75	0.56	.....	5	35.16	35.31	-0.15	.....
230	9		5	40.9	44.7	40.80	0.27	5	40.4	44.4	40.40	0.56	.....	5	41.07	40.96	+0.11	.....
231	10-9		6	0.4	4.5	0.45	0.25	.....	.....	.....	.....	.....	.....	6	0.70	.....	.....	.....
232	10		6	8.1	12.0	8.05	0.26	.....	.....	.....	.....	.....	.....	6	8.31	.....	.....	.....
233	10-11		6	27.7	31.7	27.70	0.25	6	27.6	31.4	27.50	0.55	.....	6	27.95	28.05	-0.10	.....
234	9-10		7	12.4	16.4	12.40	0.26	7	12.2	16.0	12.10	0.56	.....	7	12.66	12.66	0.00	.....
235	9		7	17.1	21.1	17.10	0.24	7	16.7	20.8	16.75	0.55	.....	7	17.34	17.30	+0.04	.....
236	10		7	32.1	36.0	32.05	0.25	7	....	35.8	31.80	0.56	.....	7	32.30	32.36	-0.06	.....
237	9-10		7	43.0	46.9	42.95	0.26	7	42.6	46.6	42.60	0.56	.....	7	43.21	43.16	+0.05	.....
238	9-10		8	7.5	11.3	7.40	0.25	8	7.3	11.3	7.30	0.56	.....	8	7.65	7.86	-0.21	.....
239	10		8	39.3	43.1	39.20	0.24	8	38.9	43.0	38.95	0.55	.....	8	39.44	39.50	-0.06	.....
240	10		8	45.5	49.4	45.45	0.24	8	45.3	49.1	45.20	0.55	.....	8	45.69	45.75	-0.06	.....
241	10		9	7.4	11.4	7.40	0.24	9	7.2	11.1	7.15	0.56	.....	9	7.64	7.71	-0.07	.....
242	..		.....	.....	.....	.....	.....	9	9.3	13.4	9.35	0.55	.....	9	.....	9.90	....	.....
243	10		9	31.8	35.8	31.80	0.23	.....	.....	.....	.....	.....	.....	9	32.03	.....	.....	.....
244	9-10		9	33.4	37.5	33.45	0.24	9	33.1	37.1	33.10	0.55	.....	9	33.69	33.65	+0.04	.....
245	9	7	10	8.1	12.2	8.15	+0.24	7	10	8.0	11.8	7.90	+0.56	7	10	8.39	8.46	-0.07	

A.R. ^{h.}5 ^{m.}15 to ^{h.}7 ^{m.}10.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 180.	d.	Zone 162.	d.	Zone 180.	Zone 162.		
226	+ 4 22	+14.6	+ 4 29	+ 1.8	+ 0 54 36.6	30.8	+ 5.8	
227	....	....	5 4	1.7	0 55	5.7	...	
228	1 25	15.1	1 38	2.6	0 51 40.1	40.6	- 0.5	
229	2 4	15.1	2 18	2.5	0 52 19.1	20.5	- 1.4	
230	6 8	14.5	6 21	1.4	0 56 22.5	22.4	+ 0.1	
231	9 39	13.9	....	...	0 59 52.9	....	...
232	2 27	15.1	....	...	0 52 42.1	....	...
233	9 42	14.0	9 51	0.6	0 59 56.0	51.6	+ 4.4	
234	0 26	15.6	0 48	2.9	0 50 41.6	50.9	- 9.3	
235	8 38	14.3	8 49	1.0	0 58 52.3	50.0	+ 2.3	
236	3 53	15.1	4 9	2.2	0 54 8.1	11.2	- 3.1	
237	0 4	15.7	0 18	3.1	0 50 19.7	21.1	- 1.4	
238	1 38	15.5	1 50	2.7	0 51 53.5	52.7	+ 0.8	
239	8 32	14.5	8 45	1.1	0 58 46.5	46.1	+ 0.4	
240	9 7	15.4	....	...	0 59 22.4	....	...
241	5 23	15.0	5 37	1.9	0 55 38.0	38.9	- 0.9	
242	....	....	8 ..	...	0 .....	....	...
243	10 2	14.3	....	...	1 0 16.3	....	...
244	5 58	15.0	6 8	1.8	0 56 13.0	9.8	+ 3.2	
245	+ 3 33	+15.5	+ 3 46	+ 2.4	+ 0 53 48.5	48.4	+ 0.1	

A.R. $7^{\text{h}} 24^{\text{m}}$ to $8^{\text{h}} 50^{\text{m}}$.Dec. $+0^{\circ} 40'$ to $0^{\circ} 50'$.

Number of the Star.	Magnitude.	ZONE 164.				ZONE 165.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 164.	Zone 165.	
		$h. m. s.$	$s.$	$s.$	$s.$	$h. m. s.$	$s.$	$s.$	$s.$	$h. m. s.$	$s.$	
1	8-9	7 24 40.4	....	40.40	+0.39	.....	.....	.....	.....	7 24 40.79	.....	.....
2	9-10	24 44.2	48.1	44.15	0.39	.....	.....	.....	.....	24 44.54	.....	.....
3	10	25 5.2	9.4	5.30	0.39	.....	.....	.....	.....	25 5.69	.....	.....
4	8-9	25 17.4	21.6	17.50	0.39	.....	.....	.....	.....	25 17.89	.....	.....
5	11	26 4.9	8.8	4.85	0.40	.....	.....	.....	.....	26 5.25	.....	.....
6	10-11	26 59.5	....	59.50	0.40	.....	.....	.....	.....	26 59.90	.....	.....
7	9-10	27 4.6	8.6	4.60	0.40	.....	.....	.....	.....	27 5.00	.....	.....
8	10-11	27 14.1	18.1	14.10	0.40	.....	.....	.....	.....	27 14.50	.....	.....
9	11-12	27 41.0	44.9	40.95	0.40	.....	.....	.....	.....	27 41.35	.....	.....
10	9-10	28 11.7	15.7	11.70	0.40	.....	.....	.....	.....	28 12.10	.....	.....
11	9-10	28 44.0	47.9	43.95	0.41	.....	.....	.....	.....	28 44.36	.....	.....
12	9-10	28 59.6	63.7	59.65	0.40	.....	.....	.....	.....	29 0.05	.....	.....
13	11	30 3.8	7.7	3.75	0.41	.....	.....	.....	.....	30 4.16	.....	.....
14	10	30 59.5	63.2	59.35	0.42	.....	.....	.....	.....	30 59.77	.....	.....
15	8	31 17.7	21.8	17.75	0.42	7 31	21.6	17.60	+0.51	31 18.17	18.11	+0.06
16	9-10	31 42.5	46.6	42.55	0.42	31 42.2	46.2	42.20	0.51	31 42.97	42.71	+0.26
17	10	31 55.0	58.9	54.95	0.43	31 54.6	....	54.60	0.52	31 55.38	55.12	+0.26
18	10	32 10.9	14.7	10.80	0.42	.....	.....	.....	.....	32 11.22	.....	.....
19	10	32 44.3	48.1	44.20	0.43	32 44.1	48.0	44.05	0.53	32 44.63	44.58	+0.05
20	10-11	33 7.9	11.7	7.80	0.43	33 7.6	11.4	7.50	0.52	33 8.23	8.02	+0.21
21	10-11	33 58.7	62.7	58.70	0.44	33 58.4	62.3	58.35	0.53	33 59.14	58.88	+0.26
22	9-10	34 31.4	35.3	31.35	0.44	34 31.1	35.0	31.05	0.54	34 31.79	31.59	+0.20
23	10-11	34 47.9	52.0	47.95	0.43	34 47.8	51.8	47.80	0.53	34 48.38	48.33	+0.05
24	10-11	35 10.3	14.2	10.25	0.43	35 10.1	13.9	10.00	0.54	35 10.68	10.54	+0.14
25	10-12	35 25.6	29.4	25.50	0.44	35 25.4	29.3	25.35	0.54	35 25.94	25.89	+0.05
26	10-11	35 48.2	52.1	48.15	0.44	35 47.9	51.8	47.85	0.55	35 48.59	48.40	+0.19
27	10-11	36 46.2	50.2	46.20	0.45	36 45.9	49.7	45.80	0.55	36 46.65	46.35	+0.30
28	10	37 7.2	11.0	7.10	0.45	37 6.8	10.8	6.80	0.56	37 7.55	7.36	+0.19
29	10-11	37 13.6	17.5	13.55	0.45	.....	.....	.....	.....	37 14.00	.....	.....
30	10-11	37 52.5	56.4	52.45	0.45	37 52.4	56.3	52.35	0.56	37 52.90	52.91	-0.01
31	11-12	38 16.7	20.7	16.70	0.45	38 16.5	20.5	16.50	0.56	38 17.15	17.06	+0.09
32	9-10	39 23.0	27.1	23.05	0.46	39 22.7	26.7	22.70	0.57	39 23.51	23.27	+0.24
33	10	39 36.1	40.1	36.10	0.47	39 35.8	39.8	35.80	0.58	39 36.57	36.38	+0.19
34	10	39 53.0	57.1	53.05	0.46	39 53.2	57.2	53.20	0.57	39 53.51	53.77	-0.26
35	9-11	40 19.7	23.7	19.70	0.47	40 19.4	23.4	19.40	0.58	40 20.17	19.98	+0.19
36	11	40 22.1	26.0	22.05	0.47	40 21.8	25.7	21.75	0.58	40 22.52	22.33	+0.19
37	9	40 45.3	49.3	45.30	0.47	40 45.2	49.3	45.25	0.58	40 45.77	45.83	-0.06
38	9-10	40	60.1	56.10	0.47	40 55.7	59.8	55.75	0.58	40 56.57	56.33	+0.24
39	10	41 18.1	21.9	18.00	0.47	41 17.7	21.8	17.75	0.59	41 18.47	18.34	+0.13
40	9-10	41 33.1	37.0	33.05	0.48	41 32.7	36.8	32.75	0.59	41 33.53	33.34	+0.19
41	10-11	42 53.1	57.1	53.10	0.48	42 52.9	56.9	52.90	0.59	42 53.58	53.49	+0.09
42	10-11	44 2.1	6.2	2.15	0.48	44 2.0	6.0	2.00	0.60	44 2.63	2.60	+0.03
43	10-11	44 7.1	11.0	7.05	0.49	44 6.7	10.8	6.75	0.60	44 7.54	7.35	+0.19
44	9	44 22.2	26.3	22.25	0.49	44 21.9	25.9	21.90	0.60	44 22.74	22.50	+0.24
45	9-10	7 44 37.8	41.7	37.75	+0.49	7 44 37.7	41.5	37.60	+0.60	7 44 38.24	38.20	+0.04

A.R. $\overset{h.}{7} \overset{m.}{24}$ to $\overset{h.}{8} \overset{m.}{50}$.Dec. $+\overset{\circ}{0} \overset{'}{40}$ to $\overset{\circ}{0} \overset{'}{50}$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 164.	d.	Zone 165.	d.	Zone 164.	Zone 165.		
1	+ 5 0	+ 0.9	+ 5 4	- 2.7	+ 0 45 0.9	1.3	- 0.4	Very red.
2	0 19	2.1	0 21	1.7	0 40 21.1	19.3	+ 1.8	
3	6 37	0.5	6 42	3.0	0 46 37.5	39.0	- 1.5	
4	8 15	0.1	8 18	3.3	0 48 15.1	14.7	+ 0.4	
5	2 9	1.8	2 12	1.9	0 42 10.8	10.1	+ 0.7	
6	5 35	1.0	5 38	2.5	0 45 36.0	35.5	+ 0.5	
7	3 19	1.6	3 21	2.0	0 43 17.4	19.0	- 1.6	
8	6 53	0.6	6 55	2.8	0 46 53.6	52.2	+ 1.4	
9	4 30	+ 1.3	4 39	2.2	0 44 31.3	36.8	- 5.5	
10	10 17	- 0.1	10 18	3.4	0 50 16.9	14.6	+ 2.3	
11	8 14	+ 0.4	8 17	2.9	0 48 14.4	14.1	+ 0.3	Double. Comp., s. p., 8'', 12th mag.
12	10 21	0.4	10 27	3.3	0 50 21.4	23.7	- 2.3	
13	7 39	0.7	7 45	2.9	0 47 39.7	42.1	- 2.4	
14	3 51	1.8	3 54	1.6	0 43 52.8	52.4	+ 0.4	
15	9 7	0.5	9 9	2.7	0 49 7.5	6.3	+ 1.2	
16	9 44	0.3	9 46	2.8	0 49 44.3	43.2	+ 1.1	
17	0 18	2.8	0 19	0.7	0 40 20.8	19.7	+ 1.1	
18	9 59	0.3	....	...	0 49 59.3	....	...
19	3 17	2.1	3 19	1.3	0 43 19.1	17.7	+ 1.4	
20	8 24	0.8	8 28	2.4	0 48 24.8	25.6	- 0.8	
21	4 40	1.9	4 47	1.5	0 44 41.9	45.5	- 3.6	
22	5 31	1.6	5 34	1.6	0 45 32.6	32.4	+ 0.2	
23	10 31	0.3	10 32	2.6	0 50 31.3	29.4	+ 1.9	
24	5 52	1.6	5 56	1.6	0 45 53.6	54.4	- 0.8	
25	7 41	1.1	7 47	1.9	0 47 42.1	45.1	- 3.0	
26	4 9	2.1	4 12	1.1	0 44 11.1	10.9	+ 0.2	
27	5 29	1.8	5 31	1.3	0 45 30.8	29.7	+ 1.1	
28	4 27	2.1	4 30	1.0	0 44 29.1	29.0	+ 0.1	
29	7 43	1.3	7 50	1.8	0 47 44.3	48.2	- 3.9	
30	9 9	0.9	9 12	2.0	0 49 9.9	10.0	- 0.1	
31	7 50	1.3	7 53	1.7	0 47 51.3	51.3	0.0	Large group of stars.
32	7 48	1.4	7 51	1.5	0 47 49.4	49.5	- 0.1	
33	1 9	3.2	1 12	0.0	0 41 12.2	12.0	+ 0.2	
34	9 38	1.1	9 39	- 1.8	0 49 39.1	37.2	+ 1.9	
35	0 29	3.4	0 31	+ 0.2	0 40 32.4	31.2	+ 1.2	
36	1 10	3.2	1 15	+ 0.1	0 41 13.2	15.1	- 1.9	
37	8 38	1.3	8 45	- 1.6	0 48 39.3	43.4	- 4.1	
38	7 59	1.5	8 2	1.3	0 48 0.5	0.7	- 0.2	
39	7 50	1.5	7 54	1.3	0 47 51.5	52.7	- 1.2	
40	2 32	3.0	2 35	0.1	0 42 35.0	34.9	+ 0.1	
41	3 19	2.9	3 19	0.1	0 43 21.9	18.9	+ 3.0	
42	6 31	2.2	6 37	0.7	0 46 33.2	36.3	- 3.1	
43	5 2	2.6	5 3	0.3	0 45 4.6	2.7	+ 1.9	
44	4 10	2.8	4 14	0.1	0 44 12.8	13.9	- 1.1	
45	+ 5 23	+ 2.5	+ 5 25	- 0.3	+ 0 45 25.5	24.7	+ 0.8	

A.R. ^{h.}7 ^{m.}24 to ^{h.}8 ^{m.}50.Dec. +^o40 to ^o50.

Number of the Star.	Magnitude.	ZONE 164.					ZONE 165.					MEAN RIGHT ASCENSION 1860.0		Difference.					
		First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	First Wire.		Second Wire.	Mean red. to 1st Wire.	z.	Zone 164.	Zone 165.						
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	h.		m.	s.	s.	s.	
46	9-10	7	45	34.2	38.1	34.15	+0.49	7	45	33.8	37.8	33.80	+0.60	7	45	34.64	34.40	+0.24	
47	10-11		45	35.3	39.2	35.25	0.49		45	....	38.9	34.90	0.61		45	35.74	35.51	+0.23
48	9-10		46	1.4	5.4	1.40	0.49		46	1.1	5.1	1.10	0.61		46	1.89	1.71	+0.18	
49	8-9		46	39.6	43.3	39.45	0.50		46	39.3	43.2	39.25	0.62		46	39.95	39.87	+0.08	
50	10		47	24.5	28.4	24.45	0.50		47	24.1	28.0	24.05	0.62		47	24.95	24.67	+0.28	
51	11		47	48.7	52.8	48.75	0.50		47	48.4	52.3	48.35	0.62		47	49.25	48.97	+0.28	
52	10-11		48	27.5	31.4	27.45	0.51		48	27.2	....	27.20	0.63		48	27.96	27.83	+0.13
53	10-12		48	....	37.6	33.60	0.51		48	33.5	37.4	33.45	0.63		48	34.11	34.08	+0.03
54	....		.....	.....	.....	....			48	58.5	62.4	58.45	0.63		48	.....	59.08	....
55	10-11		49	39.0	42.8	38.90	0.52		49	38.3	42.6	38.45	0.63		49	39.42	39.08	+0.34	
56	10-11		49	59.8	63.6	59.70	0.51		49	59.8	63.5	59.65	0.63		49	0.21	0.28	-0.07	
57	9-10		50	2.7	6.5	2.60	0.51		50	2.4	6.4	2.40	0.63		50	3.11	3.23	-0.12	
58	10-11		51	13.9	17.9	13.90	0.52		51	13.6	17.4	13.50	0.64		51	14.42	14.14	+0.28	
59	11		.....	.....	.....	....			51	36.5	40.3	36.40	0.65		51	.....	37.05	....
60	11		52	0.5	4.2	0.35	0.53		52	0.0	4.0	0.00	0.65		52	0.88	0.65	+0.23	
61	10		52	14.2	18.1	14.15	0.53		52	14.1	18.0	14.05	0.65		52	14.68	14.70	-0.02	
62	10-11		52	25.6	29.7	25.65	0.53		52	25.5	29.6	25.55	0.65		52	26.18	26.20	-0.02	
63	10-11		52	58.0	62.2	58.10	0.53		52	57.8	61.8	57.80	0.66		52	58.63	58.46	+0.17	
64	10		53	34.3	38.3	34.30	0.54		53	33.9	37.9	33.90	0.66		53	34.84	34.56	+0.28	
65	11		53	44.6	48.6	44.60	0.53		53	44.3	48.3	44.30	0.66		53	45.13	44.96	+0.17	
66	10-11		54	33.0	37.0	33.00	0.54		54	32.7	36.9	32.80	0.66		54	33.54	33.46	+0.08	
67	9-10		54	48.3	52.2	48.25	0.53		54	47.9	52.0	47.95	0.66		54	48.78	48.61	+0.17	
68	10-11		55	23.8	27.6	23.70	0.54		55	23.6	27.8	23.70	0.67		55	24.25	24.37	-0.13	
69	10-11		55	45.6	49.7	45.65	0.55		55	45.5	49.3	45.40	0.68		55	46.20	46.08	+0.12	
70	10-11		56	7.1	11.0	7.05	0.55		56	6.8	11.0	6.90	0.68		56	7.60	7.58	+0.08	
71	9-10		59	8.1	12.1	8.10	0.56		59	8.0	11.9	7.95	0.70		59	8.66	8.65	+0.01	
72	9-11		59	29.4	33.5	29.45	0.56		59	29.5	33.4	29.45	0.70		59	30.01	30.15	-0.14	
73	9-10		59	31.2	35.2	31.20	0.56		59	31.1	35.1	31.10	0.70		59	31.76	31.80	-0.04	
74	10-11	7	59	52.5	48.50	0.57		7	59	52.1	48.10	0.71	7	59	49.07	48.81	+0.26
75	10-11	8	0	33.9	37.8	33.85	0.57		8	0	33.4	37.3	33.35	0.71	8	0	34.42	34.06	+0.36
76	10		0	36.3	40.2	36.25	0.56		0	36.1	39.9	36.00	0.70		0	36.81	36.70	+0.11	
77	10		1	10.1	14.1	10.10	0.57		1	10.0	13.9	9.95	0.71		1	10.67	10.66	+0.01	
78	10		1	28.1	32.5	28.30	0.57		1	28.0	32.0	28.00	0.71		1	28.87	28.71	+0.16	
79	9-10		1	56.8	60.9	56.85	0.58		1	56.5	60.5	56.50	0.72		1	57.43	57.22	+0.21	
80	10		2	32.6	36.7	32.65	0.58		2	32.4	36.4	32.40	0.72		2	33.23	33.12	+0.11	
81	8-9		3	4.0	....	4.00	0.57		3	3.9	7.9	3.90	0.72		3	4.57	4.62	-0.05
82	10		3	12.1	15.9	12.00	0.58		3	11.8	15.8	11.80	0.72		3	12.58	12.52	+0.06	
83	10		4	39.0	42.9	38.95	0.59		4	38.6	42.6	38.60	0.73		4	39.54	39.33	+0.21	
84	10-11		4	50.1	54.1	50.10	0.59		4	49.9	53.8	49.85	0.73		4	50.69	50.58	+0.11	
85	8-9		5	22.1	26.2	22.15	0.59		5	22.0	26.0	22.00	0.74		5	22.74	22.74	0.00	
86	9-10		5	47.3	51.3	47.30	0.59		5	47.1	51.1	47.10	0.74		5	47.89	47.84	+0.05	
87	10-11		6	36.9	41.0	36.95	0.59		6	36.7	40.7	36.70	0.75		6	37.54	37.45	+0.09	
88	10-11		7	17.2	21.1	17.15	0.59		7	17.1	21.0	17.05	0.75		7	17.74	17.80	-0.06	
89	10-11		7	22.8	26.8	22.80	0.60		7	22.6	26.4	22.50	0.75		7	23.40	23.25	+0.15	
90	10-11	8	8	24.6	28.4	24.50	+0.60		8	8	24.5	28.3	24.40	+0.76	8	8	25.10	25.16	-0.06

A.R. ^{h.}7 ^{m.}24 to ^{h.}8 ^{m.}50.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 164.	d.	Zone 165.	d.	Zone 164.	Zone 165.		
46	+ 9 33	+ 1.5	+ 9 38	- 1.1	+ 0 49 34.5	36.9	- 2.4	
47	6 29	2.3	6 33	0.5	0 46 31.3	32.5	- 1.2	
48	7 46	2.0	7 49	- 0.7	0 47 48.0	48.3	- 0.3	
49	1 30	3.7	1 34	+ 0.8	0 41 33.7	34.8	- 1.1	
50	5 29	2.7	5 33	0.0	0 45 31.7	33.0	- 1.3	
51	5 24	2.8	5 27	0.0	0 45 26.8	27.0	- 0.2	
52	4 10	3.2	4 11	0.4	0 44 13.2	11.4	+ 1.8	
53	4 39	3.1	4 48	0.3	0 44 42.1	48.3	- 6.2	
54	....	...	2 30	0.8	0 42	30.8	....
55	0 35	4.2	0 37	+ 1.3	0 40 39.2	38.3	+ 0.9	
56	9 24	2.0	9 31	- 0.6	0 49 26.0	30.4	- 4.4	
57	9 59	1.8	10 4	- 0.7	0 50 0.8	3.3	- 2.5	
58	3 23	3.6	3 25	+ 0.9	0 43 26.6	25.9	+ 0.7	
59	1 1	4.3	1 4	1.5	0 41 5.3	5.5	- 0.2	
60	5 2	3.3	5 6	+ 0.6	0 45 5.3	6.6	- 1.3	
61	8 20	2.4	8 22	- 0.1	0 48 22.4	21.9	+ 0.5	
62	5 8	3.3	5 12	+ 0.6	0 45 11.3	12.6	- 1.3	
63	3 16	3.8	3 19	1.1	0 43 19.8	20.1	- 0.3	
64	2 11	4.2	2 13	1.4	0 42 15.2	14.4	+ 0.8	
65	8 20	2.6	8 20	0.1	0 48 22.6	20.1	+ 2.5	
66	7 19	2.9	7 23	0.4	0 47 21.9	23.4	- 1.5	
67	9 38	2.2	9 42	0.0	0 49 40.2	42.0	- 1.8	
68	8 39	2.6	8 41	0.2	0 48 41.6	41.2	+ 0.4	
69	3 2	4.1	3 6	1.5	0 43 6.1	7.5	- 1.4	
70	3 15	4.1	3 17	1.5	0 43 19.1	18.5	+ 0.6	
71	2 10	4.7	2 11	2.1	0 42 14.7	13.1	+ 1.6	
72	7 48	3.2	7 49	0.9	0 47 51.2	49.9	+ 1.3	
73	10 4	2.6	10 6	0.4	0 50 6.6	6.4	+ 0.2	
74	0 28	5.2	0 31	2.6	0 40 33.2	33.6	- 0.4	
75	0 40	5.2	0 38	2.6	0 40 45.2	40.6	+ 4.6	
76	8 24	3.2	8 30	0.9	0 48 27.2	30.9	- 3.7	
77	2 58	4.6	3 0	2.2	0 43 2.6	2.2	+ 0.4	
78	2 45	4.7	2 48	2.3	0 42 49.7	50.3	- 0.6	
79	1 16	5.1	1 19	2.7	0 41 21.1	21.7	- 0.6	
80	4 32	4.3	4 35	2.0	0 44 36.3	37.0	- 0.7	
81	8 7	3.5	8 8	1.3	0 48 10.5	9.3	+ 1.2	
82	4 16	4.5	4 18	2.1	0 44 20.5	20.1	+ 0.4	Comp., s. p., 10'', 11-12th mag.
83	3 7	4.9	3 9	2.6	0 43 11.9	11.6	+ 0.3	
84	8 44	3.5	8 48	1.5	0 48 47.5	49.5	+ 2.0	
85	4 56	4.5	4 58	2.3	0 45 0.5	0.3	+ 0.2	
86	2 48	5.1	2 50	2.8	0 42 53.1	52.8	+ 0.3	
87	7 30	3.9	7 30	1.5	0 47 33.9	31.5	+ 2.4	
88	7 46	3.9	7 51	1.5	0 47 49.9	52.5	- 2.6	
89	3 48	5.0	3 52	2.7	0 43 53.0	54.7	- 1.7	
90	+ 1 51	+ 5.6	+ 1 53	+ 3.3	+ 0 41 56.6	56.3	+ 0.3	

A.R. ^{h.}7 ^{m.}24 to ^{h.}8 ^{m.}50.Dec. ⁰+0 40 to ⁰0 50.

Number of the Star.	Magnitude.	ZONE 164.					ZONE 165.					MEAN RIGHT ASCENSION. 1860.0				Difference.		
		First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	First Wire.			Second Wire.	Mean red. to 1st Wire.	k.	Zone 164.	Zone 165.			
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.		s.	s.
91	10-11	8	8	42.3	46.4	42.35	+0.60	8	8	42.3	46.4	42.35	+0.76	8	8	42.95	43.11	-0.16
92	10		9	38.7	42.7	38.70	0.60		9	38.4	42.3	38.35	0.76		9	39.30	39.11	+0.19
93	9		10	43.0	46.9	42.95	0.61		10	42.8	46.7	42.75	0.77		10	43.56	43.32	+0.24
94	9		10	46.2	50.3	46.25	0.61		10	46.0	50.0	46.00	0.77		10	46.86	46.77	+0.09
95	9-10		11	35.4	39.4	35.40	0.61		11	35.3	39.2	35.25	0.78		11	36.01	36.03	-0.02
96	9-10		11	37.8	41.7	37.75	0.62		11	37.4	41.3	37.35	0.78		11	38.37	38.13	+0.24
97	9-10		12	12.9	16.9	12.90	0.62		12	12.7	16.5	12.60	0.78		12	13.52	13.38	+0.14
98	....		.....	.....	.....	.....	.....		12	43.2	47.1	43.15	0.78		12	.....	43.93	....
99	....		.....	.....	.....	.....	.....		12	56.0	60.0	56.00	0.78		12	.....	56.78	....
100	10-11		14	18.3	22.3	18.30	0.63		14	18.3	22.2	18.25	0.80		14	18.93	19.05	-0.12
101	10-11		14	28.3	32.4	28.35	0.62		14	28.1	32.2	28.15	0.80		14	28.97	28.95	+0.02
102	9-11		15	0.3	4.3	0.30	0.63		14	60.0	63.8	59.90	0.80		15	0.93	0.70	+0.23
103	10-11		15	28.7	32.6	28.65	0.63		15	28.2	32.1	28.15	0.80		15	29.28	28.95	+0.33
104	9		15	51.7	55.6	51.65	0.63		15	51.6	55.5	51.55	0.80		15	52.28	52.35	-0.07
105	10-11		15	....	59.8	55.80	0.64		15	....	59.7	55.70	0.81		15	56.44	56.51	-0.07
106	10-12		16	48.4	52.3	48.35	0.64		16	47.9	51.9	47.90	0.81		16	48.99	48.71	+0.28
107	11-12		17	13.3	17.2	13.25	0.64		17	12.8	16.8	12.80	0.82		17	13.89	13.62	+0.27
108	8-9		18	54.8	59.0	54.90	0.65		18	54.8	58.9	54.85	0.83		18	55.55	55.68	-0.13
109	11-12		19	35.5	39.3	35.40	0.65		19	35.4	39.3	35.35	0.83		19	36.05	36.18	-0.13
110	11-12		.....	.....	.....	.....	.....		20	43.3	47.3	43.30	0.84		20	.....	44.14	....
111	....		.....	.....	.....	.....	.....		20	53.0	57.2	53.10	0.83		20	.....	53.93	....
112	8-9		21	2.6	6.5	2.55	0.66		21	2.3	6.6	2.45	0.84		21	3.21	3.29	-0.08
113	9		22	35.7	39.6	35.65	0.67		22	35.3	39.5	35.40	0.85		22	36.32	36.25	+0.07
114	9		24	28.1	32.0	28.05	0.68		24	27.8	31.8	27.80	0.86		24	28.73	28.66	+0.07
115	9-10		25	33.5	37.4	33.45	0.68		25	33.2	37.2	33.20	0.87		25	34.13	34.07	+0.06
116	11		25	51.7	55.6	51.65	0.69		.....	.....	.....	.....	.....		25	52.44	.....	....
117	11		26	7.3	11.3	7.30	0.68		.....	.....	.....	.....	.....		26	7.98	.....	....
118	11		26	32.7	36.7	32.70	0.69		.....	.....	.....	.....	.....		26	33.39	.....	....
119	9-10		26	38.6	42.5	38.55	0.69		.....	.....	.....	.....	.....		26	39.24	.....	....
120	9-10		27	34.9	38.8	34.85	0.69		27	34.8	38.7	34.75	0.88		27	35.54	35.63	-0.09
121	8		27	56.7	....	56.70	0.69		27	56.4	60.4	56.40	0.88		27	57.39	57.28	+0.11
122	11		29	10.4	....	10.40	0.71		29	10.0	....	10.00	0.89		29	11.11	10.89	+0.22
123	8-9		29	23.4	27.3	23.35	0.70		29	23.3	27.3	23.30	0.89		29	24.05	24.19	-0.14
124	9-10		30	2.2	6.4	2.30	0.70		30	2.1	6.2	2.15	0.89		30	3.00	3.04	-0.04
125	11		30	29.3	33.1	29.20	0.71		30	28.8	32.8	28.80	0.90		30	29.91	29.70	+0.21
126	10-11		30	36.8	40.8	36.80	0.70		30	36.6	40.6	36.60	0.89		30	37.50	37.49	+0.01
127	9-10		31	5.3	9.4	5.35	0.71		31	5.2	9.0	5.10	0.90		31	6.06	6.00	+0.06
128	11		32	....	20.4	16.40	0.71		32	16.0	20.1	16.05	0.90		32	17.11	16.95	+0.16
129	11		32	41.3	45.3	41.30	0.72		32	41.0	....	41.00	0.92		32	42.02	41.92	+0.10
130	11		32	49.0	52.8	48.90	0.72		32	48.7	52.7	48.70	0.92		32	49.62	49.62	0.00
131	10-11		33	15.6	19.4	15.50	0.72		33	15.4	19.4	15.40	0.92		33	16.22	16.32	-0.10
132	10-11		33	37.9	41.9	37.90	0.73		33	37.7	41.8	37.75	0.92		33	38.63	38.67	-0.04
133	10-11		33	48.8	52.7	48.75	0.72		33	48.6	52.4	48.50	0.92		33	49.47	49.42	+0.05
134	....		.....	.....	.....	.....	.....		34	0.4	4.7	0.55	0.92		34	.....	1.47	....
135	10-11	8	34	3.9	7.8	3.85	+0.72	8	34	4.0	7.8	3.90	+0.92	8	34	4.57	4.82	-0.25

A.R. ^{h.}7 ^{m.}24 to ^{h.}8 ^{m.}50.Dec. +^o40 to ^o50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 164.	d.	Zone 165.	d.	Zone 164.	Zone 165.		
91	+ 4 22	+ 5.0	+ 4 25	+ 2.8	+ 0 44 27.0	27.8	- 0.8	
92	9 6	3.8	9 7	1.9	0 49 9.8	8.9	+ 0.9	
93	6 19	4.6	6 21	2.6	0 46 23.6	23.6	0.0	
94	7 41	4.3	7 45	2.3	0 47 45.3	47.3	- 2.0	
95	2 57	5.6	3 0	3.4	0 43 2.6	3.4	- 0.8	
96	0 45	6.1	....	...	0 40 51.1	....	...
97	3 8	5.6	3 8	3.5	0 43 13.6	11.5	+ 2.1	
98	....	...	9 8	2.2	0 49	10.2	...	
99	....	...	9 16	2.2	0 49	18.2	...	
100	0 21	6.4	0 25	4.3	0 40 27.4	29.3	- 1.9	
101	8 26	4.4	8 28	2.6	0 48 30.4	30.6	- 0.2	
102	6 9	5.0	6 11	3.1	0 46 14.0	14.1	- 0.1	
103	5 0	5.3	5 3	3.4	0 45 5.3	6.4	- 1.1	
104	8 36	4.4	8 36	2.7	0 48 40.4	38.7	+ 1.7	
105	4 33	5.5	4 37	3.6	0 44 38.5	40.6	- 2.1	
106	7 37	4.8	7 40	3.1	0 47 41.8	43.1	- 1.3	
107	5 16	5.4	5 19	3.6	0 45 21.4	22.6	- 1.2	
108	1 2	6.6	1 4	4.7	0 41 8.6	8.7	- 0.1	
109	8 14	4.8	8 16	3.2	0 48 18.8	19.2	- 0.4	
110	0 19	7.0	0 20	5.1	0 40 26.0	25.1	+ 0.9	
111	....	...	9 51	3.0	0 49	54.0	...	
112	2 12	6.5	2 14	4.7	0 42 18.5	18.7	- 0.2	
113	4 14	6.1	4 15	4.5	0 44 20.1	19.5	+ 0.6	
114	7 27	5.5	7 29	3.8	0 47 32.5	32.8	- 0.3	
115	7 9	5.6	7 12	4.3	0 47 14.6	16.3	- 1.7	
116	3 30	6.6	....	...	0 43 36.6	....	...
117	6 57	5.7	....	...	0 47 2.7	....	...
118	3 0	6.8	....	...	0 43 6.8	....	...
119	8 10	5.5	....	...	0 48 15.5	....	...
120	5 15	6.3	5 16	4.9	0 45 21.3	20.9	+ 0.4	
121	10 28	5.0	10 28	3.8	0 50 33.0	31.8	+ 1.2	Reddish.
122	0 21	7.7	0 34	6.2	0 40 28.7	40.2	-11.5	
123	10 18	5.2	10 22	8.6	0 50 23.2	30.6	- 7.4	
124	9 8	5.5	9 10	8.4	0 49 13.5	18.4	- 4.9	
125	2 4	7.4	2 6	6.9	0 42 11.4	12.9	- 1.5	
126	10 3	5.3	10 4	8.7	0 50 8.3	12.7	- 4.4	
127	7 12	6.1	7 13	8.1	0 47 18.1	21.1	- 3.0	
128	7 33	6.2	7 37	8.4	0 47 39.2	45.4	- 6.2	
129	3 31	7.2	3 34	7.6	0 43 38.2	41.6	- 3.4	
130	4 2	7.1	4 4	7.6	0 44 9.1	11.6	- 2.5	
131	5 52	6.6	5 55	8.1	0 45 58.6	63.1	- 4.5	
132	3 6	7.4	3 8	7.5	0 43 13.4	15.5	- 2.1	
133	4 59	6.9	5 0	8.0	0 45 5.9	8.0	- 2.1	
134	....	...	9 20	8.9	0 49	28.9	...	
135	+10 38	+ 5.5	+10 40	+ 9.2	+ 0 50 43.5	49.2	- 5.7	

ZONE OBSERVATIONS.

A.R. ^{h.}7 ^{m.}24 to ^{h.}8 ^{m.}50.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 164.					ZONE 165.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 164.	Zone 165.				
136	10-11	h. m. s. 8 34 31.3	s. 35.2	s. 31.25	+0.73	h. m. s. 8 34 31.0	s. 35.0	s. 31.00	+0.92	h. m. s. 8 34 31.98	s. 31.92	+0.06			
137	9-10	34 47.2	51.2	47.20	0.73	34 47.0	51.0	47.00	0.93	34 47.93	47.93	0.00			
138	10	35 55.0	59.1	55.05	0.73	35 54.9	59.0	54.95	0.93	35 55.78	55.88	-0.10			
139	10	37 29.6	33.2	29.40	0.74	.....	.....	.....	.....	37 30.14	.....	.....	
140	9	37 30.1	34.1	30.10	0.74	37	34.0	30.00	0.94	37 30.84	30.94	-0.10			
141	9-10	37 54.1	57.9	54.00	0.74	37	58.0	54.00	0.95	37 54.74	54.95	-0.21			
142	9-10	38 7.0	.....	.....	0.74	38 6.9	10.8	6.85	0.95	38 7.74	7.80	-0.06	
143	7	38 11.5	15.5	11.50	0.75	.....	.....	.....	.....	38 12.25	.....	.....	
144	9-10	39 39.2	43.2	39.20	0.75	39 39.3	43.3	39.30	0.96	39 39.95	40.26	-0.31			
145	11-12	41 31.6	35.7	31.65	0.76	41 31.7	35.9	31.80	0.97	41 32.41	32.77	-0.36			
146	9-10	41 37.1	40.8	36.95	0.76	41	40.5	36.50	0.97	41 37.71	37.47	+0.24			
147	..	.....	.....	.....	.....	42 32.0	36.0	32.00	0.98	42	32.98	....		
148	11	43 54.3	58.2	54.25	0.77	.....	.....	.....	.....	43 55.02	.....	.....	
149	11-12	45 5.5	9.5	5.50	0.77	45 5.6	9.6	5.60	0.99	45 6.27	6.59	-0.32			
150	9-10	45 18.3	22.4	18.35	0.78	45 18.0	22.1	18.05	1.00	45 19.13	19.05	+0.08			
151	10-11	45 43.6	47.6	43.60	0.77	45 43.3	....	43.30	1.00	45 44.37	44.30	+0.07		
152	9-10	46 46.5	50.6	46.55	0.79	46 46.4	50.3	46.35	1.01	46 47.34	47.36	-0.02			
153	9-10	46 51.8	55.8	51.80	0.78	46 51.6	....	51.60	1.01	46 52.58	52.61	-0.03		
154	9-10	47 40.4	44.3	40.35	0.78	47 40.3	44.3	40.30	1.01	47 41.13	41.31	-0.18			
155	10-11	47 51.0	54.8	50.90	0.79	47 50.7	....	50.70	1.02	47 51.69	51.72	-0.03		
156	.....	.....	.....	.....	.....	47	54.7	50.70	1.02	47	51.72	....		
157	10-12	49 4.3	8.4	4.35	0.80	.....	.....	.....	.....	49 5.15	.....	....	
158	.....	.....	.....	.....	.....	49 17.4	21.6	17.50	1.01	49	18.51	....		
159	9-10	8 50 40.8	44.8	40.80	+0.80	8 50 40.9	44.6	40.75	+1.03	8 50 41.60	41.78	-0.18			

A.R. ^{h.}7 ^{m.}24 to ^{h.}8 ^{m.}50.Dec. +⁰ 40' to ⁰ 50'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 164.	d.	Zone 165.	d.	Zone 164.	Zone 165.		
136	+ 8 37	+ 6.1	+ 8 39	+ 5.1	+ 0 48 43.1	44.1	- 1.0	
137	7 33	6.4	7 36	5.3	0 47 39.4	41.3	- 1.9	
138	7 55	6.4	7 58	5.4	0 48 1.4	3.4	- 2.0	
139	10 9	5.8	10 11	5.1	0 50 14.8	16.1	- 1.3	
140	8 57	6.2	9 0	5.3	0 49 3.2	5.3	- 2.1	
141	9 32	6.1	9 34	5.2	0 49 38.1	39.2	- 1.1	
142	8 32	6.4	8 32	5.5	0 48 38.4	37.5	+ 0.9	
143	2 6	8.1	2 8	6.9	0 42 14.1	14.9	- 0.8	
144	9 14	6.4	9 14	5.5	0 49 20.4	19.5	+ 0.9	
145	7 29	7.0	7 34	6.1	0 47 36.0	40.1	- 4.1	
146	10 44	6.1	10 48	5.4	0 50 50.1	53.4	- 3.3	
147	....	...	7 7	6.3	0 47	13.3	...	
148	8 51	6.8	8 53	6.1	0 48 57.8	59.1	- 1.3	
149	6 56	7.4	6 58	6.7	0 47 3.4	4.7	- 1.3	
150	2 16	8.7	2 19	7.8	0 42 24.7	26.8	- 2.1	
151	8 21	7.2	8 25	6.5	0 48 28.2	31.5	- 3.3	
152	1 0	9.1	1 2	8.2	0 41 9.1	10.2	- 1.1	
153	6 7	7.8	6 10	7.1	0 46 14.8	17.1	- 2.3	
154	9 12	7.1	9 13	6.5	0 49 19.1	19.5	- 0.4	
155	0 8	9.5	0 10	8.5	0 40 17.5	18.5	- 1.0	
156	....	...	1 14	8.3	0 41	22.3	...	
157	1 35	9.3	1 40	8.3	0 41 44.3	48.3	- 4.0	
158	....	...	6 6	7.4	0 48	13.4	...	
159	+ 5 55	+ 8.2	+ 5 57	+ 7.6	+ 0 46 3.2	4.6	- 1.4	Vacant field.

A.R. ^{h.}7 ^{m.}8 to ^{h.}8 ^{m.}20.

Dec. +0 50 to 1 0.

Number of the Star.	Magnitude.	ZONE 166.						ZONE 169.						MEAN RIGHT ASCENSION. 1860.0				Difference.
		First Wire.			Second Wire.	Mean red. to 1st Wire.	z.	First Wire.			Second Wire.	Mean red. to 1st Wire.	z.	Zone 166.		Zone 169.		
		h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	s.	s.	h.	m.	s.	s.	
1	9-10	7	8	7.3	11.3	7.30	+0.54	7	8	7.4	11.5	7.45	+0.17	7	8	7.84	7.62	+0.22
2	..	.....	.....	.....	.....	.....	.....	8	39.5	43.5	39.50	0.16	8	.....	.....	39.66	.....	.....
3	10	8	45.5	49.2	45.35	0.54	.....	8	46.1	49.7	45.90	0.16	8	45.89	46.06	46.06	-0.17	.....
4	10-11	9	7.2	11.1	7.15	0.56	.....	9	7.7	11.5	7.60	0.16	9	7.71	7.76	7.76	-0.05	.....
5	10-11	9	9.6	13.6	9.60	0.55	.....	.....	.....	.....	.....	.....	9	10.15	.....	.....	.....	.....
6	..	.....	.....	.....	.....	.....	.....	9	33.9	37.7	33.80	0.16	9	.....	.....	33.96	.....	.....
7	10	10	8.0	11.8	7.90	0.59	.....	10	8.1	11.9	8.00	0.17	10	8.49	8.17	8.17	+0.32	.....
8	..	.....	.....	.....	.....	.....	.....	10	44.2	48.4	44.30	0.16	10	.....	.....	44.46	.....	.....
9	9-10	11	22.4	26.4	22.40	0.61	.....	11	22.6	26.6	22.60	0.16	11	23.01	22.76	22.76	+0.25	.....
10	9-11	11	41.7	45.6	41.65	0.62	.....	11	42.3	46.2	42.25	0.16	11	42.27	42.41	42.41	-0.14	.....
11	9-11	11	52.3	56.3	52.30	0.62	.....	11	53.0	57.3	53.15	0.16	11	52.92	53.31	53.31	-0.39	.....
12	11	12	7.6	11.7	7.65	0.64	.....	.....	.....	.....	.....	.....	12	8.29	.....	.....	.....	.....
13	10-11	12	38.9	43.0	38.95	0.64	.....	12	39.7	43.5	39.60	0.16	12	39.59	39.76	39.76	-0.17	.....
14	10	12	48.1	52.1	48.10	0.65	.....	12	48.8	52.8	48.80	0.16	12	48.75	48.96	48.96	-0.21	.....
15	11	13	11.7	15.6	11.65	0.66	.....	13	12.0	16.1	12.05	0.16	13	12.31	12.21	12.21	+0.10	.....
16	10-11	13	25.8	29.9	25.85	0.66	.....	.....	.....	.....	.....	.....	13	26.51	.....	.....	.....	.....
17	11	14	11.3	15.2	11.25	0.67	.....	14	11.7	15.6	11.65	0.16	14	11.92	11.81	11.81	+0.11	.....
18	10-11	14	26.0	30.0	26.00	0.70	.....	14	26.6	30.4	26.50	0.16	14	26.70	26.66	26.66	+0.04	.....
19	10-11	14	57.1	61.0	57.05	0.71	.....	14	57.6	61.4	57.50	0.16	14	57.76	57.66	57.66	+0.10	.....
20	10-11	14	59.8	64.0	59.90	0.70	.....	15	0.7	4.8	0.75	0.16	15	0.60	0.91	0.91	-0.31	.....
21	8	15	14.2	18.3	14.25	0.70	.....	15	14.7	18.9	14.80	0.16	15	14.95	14.96	14.96	-0.01	.....
22	10-12	16	6.1	9.8	5.95	0.72	.....	16	6.7	10.0	6.65	0.16	16	6.67	6.81	6.81	-0.14	.....
23	9-10	16	19.9	24.0	19.95	0.72	.....	16	20.3	24.2	20.25	0.15	16	20.67	20.40	20.40	+0.27	.....
24	10	16	53.7	57.7	53.70	0.75	.....	16	54.2	58.2	54.20	0.16	16	54.45	54.36	54.36	+0.09	.....
25	..	.....	.....	.....	.....	.....	.....	17	3.5	7.2	3.35	0.16	17	.....	3.51	.....	.....	.....
26	9-11	17	12.9	.....	12.90	0.76	.....	17	13.6	17.7	13.65	0.16	17	13.66	13.81	13.81	-0.15	.....
27	9-10	17	17.3	21.4	17.35	0.75	.....	17	.....	22.4	18.40	0.15	17	18.10	18.55	18.55	-0.45	.....
28	10-11	17	56.3	.....	56.30	0.76	.....	17	57.1	61.0	57.05	0.15	17	57.06	57.20	57.20	-0.14	.....
29	10	18	3.8	7.7	3.75	0.78	.....	18	4.5	8.3	4.40	0.16	18	4.53	4.56	4.56	-0.03	.....
30	10	18	21.7	25.7	21.70	0.77	.....	18	22.3	26.2	22.25	0.15	18	22.47	22.40	22.40	+0.07	.....
31	10-11	18	34.9	38.9	34.90	0.79	.....	18	35.6	39.5	35.55	0.16	18	35.69	35.71	35.71	-0.02	.....
32	10-11	18	53.7	57.6	53.65	0.80	.....	18	54.3	58.1	54.20	0.16	18	54.45	54.36	54.36	+0.09	.....
33	10-11	19	.....	7.6	3.60	0.81	.....	19	4.2	8.2	4.20	0.16	19	4.41	4.36	4.36	+0.05	.....
34	11	19	24.0	27.8	23.90	0.81	.....	19	24.4	28.5	24.45	0.15	19	24.71	24.60	24.60	+0.11	.....
35	10-11	19	39.2	43.1	39.15	0.81	.....	19	40.1	43.5	39.80	0.16	19	39.96	39.96	39.96	0.00	.....
36	9-10	19	51.4	55.4	51.40	0.80	.....	19	51.9	55.9	51.90	0.15	19	52.20	52.05	52.05	+0.15	.....
37	.....	.....	.....	.....	.....	.....	.....	20	5.9	10.0	5.95	0.16	20	.....	6.11	.....	.....	.....
38	10-11	20	59.4	63.4	59.40	0.85	.....	20	59.9	.....	59.90	0.16	21	0.25	0.06	0.06	+0.19	.....
39	11	21	.....	6.8	2.80	0.85	.....	21	3.6	7.2	3.40	0.16	21	3.65	3.56	3.56	+0.09	.....
40	9	22	34.4	38.4	34.40	0.89	.....	22	35.3	39.0	35.15	0.16	22	35.29	35.31	35.31	-0.02	.....
41	10-11	22	49.5	53.5	49.50	0.89	.....	22	50.3	54.5	50.40	0.15	22	50.39	50.55	50.55	-0.16	.....
42	9-10	23	1.0	5.1	1.05	0.89	.....	23	.....	.....	.....	.....	23	1.94	.....	.....	.....	.....
43	10-11	23	22.6	26.3	22.45	0.90	.....	23	23.4	27.6	23.50	0.15	23	23.35	23.65	23.65	-0.30	.....
44	9-10	7	23	41.4	45.5	41.45	+0.91	23	42.4	46.3	42.35	0.15	23	42.36	42.50	42.50	-0.14	.....
45	.....	.....	.....	.....	.....	.....	.....	7	23	59.9	64.0	59.95	+0.15	7	24	.....	0.10	.....

A.R. ^{h.}7 ^{m.}8 to ^{h.}8 ^{m.}20.

Dec. +0 50 to 1 0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 186.	d.	Zone 189.	d.	Zone 186.	Zone 189.		
1	+ 1 56	- 2.3	+ 2 11	-19.2	+ 0 51 53.7	51.8	+ 1.9	Zone (b) most probably correct.
2	....	...	9 10	21.2	0 58	48.8	...
3	9 18	4.2	9 41	21.3	0 59 13.8	19.7	- 5.9	
4	5 43	3.3	6 0	20.3	0 55 39.7	39.7	0.0	
5	9 1	4.1	....	....	0 58 56.9	....	...
6	....	...	6 32	20.3	0 56	11.7	...
7	3 52	2.8	4 7	19.7	0 53 49.2	47.3	+ 1.9	
8	....	...	6 48	20.4	0 56	27.6	...
9	4 29	3.0	4 48	19.8	0 54 26.0	28.2	- 2.2	
10	5 24	3.2	5 42	20.1	0 55 20.8	21.9	- 1.1	
11	6 32	3.4	0 56 28.6	Doubtful.
12	0 12	1.8	....	....	0 50 10.2	....	...
13	6 33	3.5	6 52	20.5	0 56 29.5	31.5	- 2.0	
14	5 27	3.2	5 42	20.1	0 55 23.8	21.9	+ 1.9	
15	6 46	3.6	7 2	21.5	0 56 42.4	40.5	+ 1.9	
16	3 7	2.6	....	....	0 53 4.4	....	...
17	8 29	4.0	8 48	21.0	0 58 25.0	27.0	- 2.0	
18	1 40	2.2	1 52	19.0	0 51 37.8	33.0	+ 4.8	
19	1 51	2.3	2 8	19.0	0 51 48.7	49.0	- 0.3	
20	3 50	2.8	4 7	19.6	0 53 47.2	47.4	- 0.2	
21	8 2	3.9	8 22	20.8	0 57 58.1	61.2	- 3.1	
22	8 3	3.9	8 23	20.8	0 57 59.1	62.2	- 3.1	
23	8 37	4.0	8 57	21.0	0 58 33.0	36.0	- 3.0	
24	3 40	2.8	3 56	19.5	0 53 37.2	36.5	+ 0.7	
25	....	...	4 36	19.7	0 54	16.3	...
26	3 5	2.6	3 22	19.3	0 53 2.4	2.7	- 0.3	
27	8 11	3.9	....	....	0 58 7.1	....	...
28	9 17	4.2	9 36	21.2	0 59 12.8	14.8	- 2.0	
29	4 33	3.0	4 46	19.7	0 54 30.0	26.3	+ 3.7	
30	8 44	4.1	9 3	21.0	0 58 39.9	42.0	- 2.1	
31	1 37	2.2	1 54	18.9	0 51 34.8	35.1	- 0.3	
32	0 48	2.0	1 4	18.6	0 50 46.0	45.4	+ 0.6	
33	2 18	2.4	2 36	19.1	0 52 15.6	16.9	- 1.3	
34	10 10	4.4	10 28	21.4	1 0 5.6	6.6	- 1.0	
35	5 20	3.2	4 36	19.6	0 55 16.8	16.4	+ 0.4	
36	9 ..	4.1	9 27	21.0	0 59	6.0	...	
37	....	...	3 8	19.2	0 52	48.8	...
38	2 13	2.4	2 33	18.9	0 52 10.6	14.1	- 3.5	
39	1 37	2.2	1 56	18.9	0 51 34.8	37.1	- 2.3	
40	1 43	2.2	2 0	18.8	0 51 40.8	41.2	- 0.4	
41	5 47	3.3	6 2	20.0	0 55 43.7	42.0	+ 1.7	
42	9 ..	4.1	....	....	0 59 ....	....	...
43	5 18	3.1	5 38	19.9	0 55 14.9	18.1	- 3.2	
44	+ 6 22	- 3.4	6 44	20.2	0 56 18.6	23.8	- 5.2	
45	....	...	+ 9 14	-20.9	+ 0 58	53.1	...

A.R. ^{h.}7 ^{m.}8 to ^{h.}8 ^{m.}20.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 166.				ZONE 169.				MEAN RIGHT ASCENSION. 1860.0				Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	First Wire.	Second Wire.	Mean red. to 1st Wire.	z.	Zone 166.	Zone 169.			
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	
46	10-9	7 24 54.0	57.9	53.95	+0.94	7 24 55.1	58.9	55.00	+0.15	7 24 54.89	55.15	-0.26		
47	9-10	25 6.8	10.5	6.65	0.94	25 7.8	11.7	7.75	0.15	25 7.59	7.90	-0.31		
48	11-12	25 22.8	26.8	22.80	0.95	25 23.9	28.0	23.95	0.15	25 23.75	24.10	-0.35		
49	9-10	25 43.4	47.4	43.40	0.96	25 44.3	48.5	44.40	0.15	25 44.36	44.55	-0.19		
50	9-10	26 15.2	19.1	15.15	0.98	26 16.2	20.4	16.30	0.15	26 16.13	16.45	-0.32		
51	10-11	26 21.6	25.6	21.60	0.97	.....	.....	.....	.....	26 22.57	.....	.....
52	10	26 48.2	52.0	48.10	0.99	26 49.0	53.3	49.15	0.15	26 49.09	49.30	-0.21		
53	11	26 58.2	62.1	58.15	0.99	.....	.....	.....	.....	26 59.14	.....	.....
54	10-11	27 10.6	14.6	10.60	0.99	.....	.....	.....	.....	27 11.59	.....	.....
55	10-11	27 36.5	40.6	36.55	1.01	27 37.6	41.6	37.60	0.15	27 37.56	37.75	-0.19		
56	11	27 48.5	52.4	48.45	1.02	27 49.9	53.6	49.75	0.15	27 49.47	49.90	-0.43		
57	9	28 3.7	7.6	3.65	1.03	28 4.6	9.0	4.80	0.15	28 4.68	4.95	-0.27		
58	10-11	28 10.9	15.1	11.00	1.03	28 11.9	15.8	11.85	0.15	28 12.03	12.00	+0.03		
59	10	28 29.2	33.3	29.25	1.03	28 30.1	.....	30.10	0.14	28 30.28	30.24	+0.04	
60	..	28 37.7	41.6	37.65	1.03	28 38.5	42.4	38.45	0.14	28 38.68	38.59	+0.09		
61	10	29 7.9	12.0	7.95	1.05	29 9.2	12.9	9.05	0.15	29 9.00	9.20	-0.20		
62	10-11	30 31.5	35.4	31.45	1.08	30 32.5	36.5	32.50	0.14	30 32.53	32.64	-0.11		
63	10-11	30 54.1	58.1	54.10	1.09	.....	.....	.....	.....	30 55.19	.....	.....
64	9-10	30 55.1	59.1	55.10	1.09	30 56.2	60.0	56.10	0.14	30 56.19	56.24	-0.05		
65	9	31 42.1	46.1	42.10	1.10	31 43.1	47.3	43.20	0.14	31 43.20	43.34	-0.14		
66	10-11	32 52.7	56.7	52.70	1.13	32 53.9	58.0	53.95	0.14	32 53.83	54.09	-0.26		
67	9-10	33 44.0	48.0	44.00	1.15	33 45.0	48.9	44.95	0.14	33 45.15	45.09	+0.06		
68	10	33 54.7	58.7	54.70	1.17	33 55.9	59.7	55.80	0.15	33 55.87	55.95	-0.08		
69	11	34 14.4	18.4	14.40	1.18	34 15.4	19.4	15.40	0.14	34 15.58	15.54	+0.04		
70	10	34 21.4	25.4	21.40	1.18	34 22.7	26.7	22.70	0.14	34 22.58	22.84	-0.26		
71	10-11	34 42.1	46.2	42.15	1.18	34 43.2	47.5	43.35	0.14	34 43.33	43.49	-0.16		
72	11	35 33.7	37.6	33.65	1.21	35	38.5	34.50	0.14	35 34.86	34.64	+0.22		
73	9-10	35 45.0	49.1	45.05	1.20	35 46.2	49.9	46.05	0.13	35 46.25	46.18	+0.07		
74	.....	.....	.....	.....	.....	36 53.9	57.6	53.75	0.14	36	53.89	.....	
75	.....	.....	.....	.....	.....	37 2.6	6.4	2.50	0.14	37	2.64	.....	
76	.....	.....	.....	.....	.....	37 44.6	48.2	44.40	0.14	37	44.54	.....	
77	.....	.....	.....	.....	.....	38 12.3	16.6	12.45	0.13	38	12.58	.....	
78	10-11	39 6.3	10.1	6.20	1.29	39 7.4	11.7	7.55	0.13	39 7.49	7.68	-0.19		
79	.....	.....	.....	.....	.....	39 15.6	.....	15.60	0.14	39	15.74	.....	
80	9-11	39 58.0	62.0	58.00	1.31	39 59.1	63.0	59.05	0.13	39 59.31	59.18	+0.13		
81	10-11	40 15.0	19.1	15.05	1.31	40 16.0	20.0	16.00	0.13	40 16.36	16.13	+0.23		
82	10-11	40 31.1	35.2	31.15	1.33	40 32.3	36.2	32.25	0.14	40 32.48	32.39	+0.09		
83	11-12	41 0.0	4.0	0.00	1.34	41 1.3	5.3	1.30	0.14	41 1.34	1.44	-0.10		
84	11	41 14.7	18.7	14.70	1.34	41	20.1	16.10	0.13	41 16.04	16.23	-0.19		
85	10-11	41 35.7	.....	35.70	1.35	41 37.4	41.0	37.20	0.13	41 37.05	37.33	-0.28	
86	9	41 44.2	48.1	44.15	1.34	.....	.....	.....	.....	41 45.49	.....	.....
87	10-11	42 53.0	57.0	53.00	1.38	42 54.5	58.3	54.40	0.13	42 54.38	54.53	-0.15		
88	.....	44 16.2	20.0	16.10	1.42	44	21.7	17.70	0.13	44 17.52	17.83	-0.31	
89	10-11	45 16.3	20.6	16.45	1.44	45 18.0	22.1	18.05	0.13	45 17.89	18.18	-0.29		
90	9-10	7 46 34.9	39.0	34.95	+1.47	7 46 36.4	40.6	36.50	+0.13	7 46 36.42	36.63	-0.21		

A.R. ^{h.}7 ^{m.}8 to ^{h.}8 ^{m.}20.Dec. +^o50 to ⁱ0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 166.	d.	Zone 169.	d.	Zone 166.	Zone 169.		
46	+ 7 22	- 3.7	+ 7 43	-20.4	+ 0 57 18.3	22.6	- 4.3	
47	6 5	3.3	6 26	20.0	0 56 1.7	6.0	- 4.3	
48	9 17	4.5	....	....	0 59 12.5	....	...
49	6 39	3.7	7 1	20.2	0 56 35.3	40.8	- 5.5	
50	4 43	3.1	5 3	19.6	0 54 39.9	43.4	- 3.5	
51	6 2	3.5	....	....	0 55 58.5	....	...
52	5 6	3.2	5 24	19.7	0 55 2.8	4.3	- 1.5	
53	6 11	3.5	....	....	0 56 7.5	....	...
54	10 19	4.5	....	....	1 0 14.5	....	...
55	6 28	3.6	6 45	20.1	0 56 24.4	24.9	- 0.5	
56	3 22	2.7	3 42	19.2	0 53 19.3	22.8	- 3.5	
57	1 3	2.0	1 21	18.5	0 51 1.0	2.5	- 1.5	
58	0 22	1.8	0 38	18.3	0 50 20.2	19.7	+ 0.5	
59	7 3	3.5	7 23	20.3	0 56 59.5	62.7	- 3.2	
60	9 25	4.2	9 46	21.0	0 59 20.8	25.0	- 4.2	
61	2 28	2.4	2 42	18.9	0 52 25.6	23.1	+ 2.5	
62	5 39	3.2	5 57	19.8	0 55 35.8	37.2	- 1.4	
63	5 59	3.2	....	....	0 55 55.6	....	...
64	5 3	3.0	5 18	19.6	0 54 60.0	58.4	+ 1.6	
65	9 33	4.2	9 57	21.0	0 59 28.8	36.0	- 7.2	
66	8 6	4.0	8 26	20.5	0 58 2.0	5.5	- 3.5	
67	6 58	3.7	7 18	19.1	0 56 54.3	58.9	- 4.6	
68	0 47	1.9	1 6	18.3	0 50 45.1	47.7	- 2.6	
69	0 44	1.9	1 2	18.3	0 50 42.1	43.7	- 1.6	
70	3 45	2.8	4 3	19.2	0 53 42.2	43.8	- 1.6	
71	7 28	3.9	7 46	20.3	0 57 24.1	25.7	- 1.6	
72	3 21	2.6	3 40	19.0	0 53 18.4	21.0	- 2.6	Fixed the lamp, zone 166.
73	9 58	4.6	....	....	0 59 53.4	....	...
74	....	...	7 2	20.0	0 56	42.0	...	
75	....	...	6 58	20.0	0 56	38.0	...	
76	....	...	4 55	19.4	0 54	35.6	...	
77	....	...	6 53	20.0	0 56	33.0	...	
78	6 33	3.6	6 52	19.9	0 56 29.4	32.1	- 2.7	
79	....	...	4 51	19.4	0 54	31.6	...	
80	6 32	3.5	6 48	19.9	0 56 28.5	28.1	+ 0.4	
81	6 14	3.5	6 32	19.8	0 56 10.5	12.2	- 1.7	
82	1 16	2.1	1 30	18.3	0 51 13.9	11.7	+ 2.2	
83	3 27	2.7	3 41	18.9	0 53 24.3	22.1	+ 2.2	
84	4 14	2.9	4 29	19.2	0 54 11.1	9.8	+ 1.3	
85	4 57	3.1	5 12	19.4	0 54 53.9	52.6	+ 1.3	
86	10 34	4.8	....	...	1 0 29.2	....	...
87	5 0	3.1	5 28	19.4	0 54 56.9	68.6	-11.7	
88	....	...	6 14	19.6	0 55	54.4	...	
89	7 42	3.9	8 3	20.0	0 57 38.1	43.0	- 4.9	
90	+ 7 12	- 3.7	+ 7 28	-19.9	+ 0 57 8.3	8.1	+ 0.2	

A.R. ^{h.}7 ^{m.}8 to ^{h.}8 ^{m.}20.

Dec. +0° 50' to 1° 0'.

Number of the Star.	Magnitude.	ZONE 166.					ZONE 169.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 166.		Zone 169.	
		^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	^{s.}	^{s.}	^{h.} ^{m.} ^{s.}	^{s.}	^{s.}	
91	9-10	7 46 46.7	50.6	46.65	+1.48		7 46 48.2	52.3	48.25	+0.13		7 46 48.13	48.38	-0.25	
92	10-11	48 43.2	47.1	43.15	1.52		48 44.7	48.4	44.55	0.12		48 44.67	44.67	0.00	
93	9-11	48 53.0	57.4	53.20	1.52		48 54.7	59.0	54.85	0.12		48 54.72	54.97	-0.25	
94	.....	.....	.....	.....	.....		49 7.6	.....	7.60	0.13		49	7.73	.....
95	9-10	49 10.4	14.3	10.35	1.54		49 12.0	15.9	11.95	0.13		49 11.89	12.08	-0.19	
96	.....	.....	.....	.....	.....		49 40.2	44.5	40.35	0.12		49	40.47	.....
97	.....	.....	.....	.....	.....		50 2.8	7.1	2.95	0.13		50	3.08	.....
98	10-11	50 55.7	59.6	55.65	1.59		50 57.3	61.2	57.25	0.13		50 57.24	57.38	-0.14	
99	11-12	51 16.4	20.6	16.50	1.59		.....	.....	.....	.....		51 18.09	.....	.....
100	9-10	51 40.0	43.8	39.90	1.59		51 41.6	45.6	41.60	0.12		51 41.49	41.72	-0.23	
101	9-10	51 49.8	53.8	49.80	1.60		51 51.4	55.6	51.50	0.12		51 51.40	51.62	-0.22	
102	10	52 12.8	16.7	12.75	1.62		52 14.8	18.6	14.70	0.13		52 14.37	14.83	-0.46	
103	9-10	52 36.8	40.7	36.75	1.63		52 38.5	42.3	38.40	0.13		52 38.38	38.53	-0.15	
104	9-10	52 43.8	48.0	43.90	1.63		52 45.5	49.3	45.40	0.12		52 45.53	45.52	+0.01	
105	9-10	53 25.1	29.1	25.10	1.64		53 26.9	30.8	26.85	0.12		53 26.74	26.87	-0.13	
106	9-10	53 38.0	42.0	38.00	1.64		53 39.8	43.7	39.75	0.12		53 39.64	39.87	-0.23	
107	9-10	55 32.1	36.1	32.10	1.69		55 34.0	37.8	33.90	0.11		55 33.79	34.01	-0.22	
108	10-11	55 56.5	60.4	56.45	1.70		55 58.4	62.6	58.50	0.12		55 58.15	58.62	-0.47	
109	10	56	43.5	39.50	1.72		56 41.3	45.3	41.30	0.11		56 41.22	41.41	-0.19	
110	11	57	35.8	31.80	1.75		57 33.7	38.0	33.85	0.12		57 33.55	33.97	-0.42	
111	11	57 54.0	57.9	53.95	1.76		.....	.....	.....	.....		57 55.71	.....	.....
112	10	58 11.8	15.9	11.85	1.77		58 13.6	17.5	13.55	0.12		58 13.62	13.67	-0.05	
113	10-11	58 30.0	34.0	30.00	1.77		58 31.8	36.0	31.90	0.12		58 31.77	32.02	-0.25	
114	11	58 36.0	40.7	36.35	1.78		.....	.....	.....	.....		58 38.13	.....	.....
115	10-11	7 59	10.5	6.50	1.80		7 59 8.1	12.2	8.15	0.11		7 59 8.30	8.26	+0.04	
116	9-10	8 0 22.7	.....	22.70	1.81		8 0 24.6	28.3	24.45	0.11		8 0 24.51	24.56	-0.05	
117	11	1 2.3	.....	2.30	1.83		.....	.....	.....	.....		1 4.13	.....	.....
118	9-10	1 6.0	10.0	6.00	1.84		1 7.9	12.1	8.00	0.12		1 7.84	8.12	-0.28	
119	8-9	1 34.7	38.8	34.75	1.86		1 36.8	40.4	36.60	0.12		1 36.61	36.72	-0.11	
120	11-12	1 45.1	49.2	45.15	1.85		.....	.....	.....	.....		1 47.00	.....	.....
121	10-11	2 21.3	25.2	21.25	1.87		.....	.....	.....	.....		2 23.12	.....	.....
122	11	2 36.7	40.9	36.80	1.88		.....	.....	.....	.....		2 38.68	.....	.....
123	11-12	3 1.2	5.1	1.15	1.88		.....	.....	.....	.....		3 3.03	.....	.....
124	11	3 21.2	25.2	21.20	1.88		3 23.0	27.1	23.05	0.11		3 23.08	23.16	-0.08	
125	11-11	4 0.5	4.6	0.55	1.91		.....	.....	.....	.....		4 2.46	.....	.....
126	9-10	4 30.8	34.7	30.75	1.91		4 32.5	36.2	32.35	0.11		4 32.66	32.46	+0.20	
127	11	4 56.1	60.0	56.05	1.93		.....	.....	.....	.....		4 57.98	.....	.....
128	11-12	5 3.3	7.5	3.40	1.93		.....	.....	.....	.....		5 5.33	.....	.....
129	.....	.....	.....	.....	.....		5 16.0	20.1	16.05	0.10		5	16.15	.....
130	11-12	5 18.8	22.7	18.75	1.94		.....	.....	.....	.....		5 20.69	.....	.....
131	11-12	5 53.4	57.4	53.40	1.96		.....	.....	.....	.....		5 55.36	.....	.....
132	10-11	6 49.9	.....	49.90	1.98		.....	.....	.....	.....		6 51.88	.....	.....
133	10	6 57.0	61.1	57.05	1.98		.....	.....	.....	.....		6 59.03	.....	.....
134	9-10	7 25.7	29.8	25.75	1.97		.....	.....	.....	.....		7 27.72	.....	.....
135	9-10	8 7 26.9	30.9	26.90	+1.99		8 7 28.8	32.6	28.70	+0.11		8 7 28.89	28.81	+0.08	

A.R. ^{h.}7 ^{m.}8 to ^{h.}8 ^{m.}20.Dec. +^o50 to ⁱ0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 186.	d.	Zone 189.	d.	Zone 186.	Zone 189.		
91	+ 4 21	- 2.7	+ 4 39	-19.1	+ 0 54 18.3	19.9	- 1.6	Coarse, double.
92	8 46	3.9	9 6	20.2	0 58 42.1	45.8	- 3.7	
93	9 ..	...	9 36	20.1	0 59	15.9	...	
94	... ..	...	1 31	18.0	0 51	13.0	...	
95	4 26	2.7	4 45	18.9	0 54 23.3	26.1	- 2.8	
96	....	...	5 47	18.9	0 55	28.1	...	
97	....	...	0 22	17.7	0 50	4.3	...	
98	2 8	2.1	2 21	18.2	0 52 5.9	2.8	+ 3.1	
99	5 59	3.1	....	...	0 55 55.9	....	...
100	10 22	4.2	10 42	20.3	1 0 17.8	21.7	- 3.9	
101	9 7	3.9	9 25	20.3	0 59 3.1	4.7	- 1.6	
102	1 48	2.0	2 5	18.1	0 51 46.0	46.9	- 0.9	
103	1 34	2.0	1 47	18.0	0 51 32.0	29.0	+ 3.0	
104	6 18	3.2	6 35	19.3	0 56 14.8	15.7	- 0.9	
105	6 59	3.4	7 14	19.4	0 56 55.6	54.6	+ 1.0	
106	9 50	4.2	10 12	20.5	0 59 45.8	51.5	- 5.7	
107	10 0	4.2	10 17	20.5	0 59 55.8	56.5	- 0.7	
108	8 36	3.9	8 47	20.1	0 58 32.1	26.9	+ 5.2	
109	8 11	3.7	8 26	19.9	0 58 7.3	6.1	+ 1.2	
110	6 23	3.2	6 39	19.4	0 56 19.8	19.6	+ 0.2	
111	4 24	2.7	....	...	0 54 21.3	....	...
112	4 48	2.8	5 2	18.7	0 54 45.2	43.3	+ 1.9	
113	4 34	2.7	4 49	18.7	0 54 31.3	30.3	+ 1.0	
114	1 6	1.8	....	...	0 51 4.2	....	...
115	9 52	4.1	10 6	20.4	0 59 47.9	45.6	+ 2.3	
116	10 30	4.2	10 50	20.6	1 0 25.8	29.4	- 3.6	
117	6 51	3.3	....	...	0 56 47.7	....	...
118	2 41	2.2	2 56	18.2	0 52 38.8	37.8	+ 1.0	
119	1 56	2.0	2 12	18.0	0 51 54.0	54.0	0.0	
120	6 28	3.2	....	...	0 56 24.8	....	...
121	4 47	2.7	....	...	0 54 44.3	....	...
122	0 27	1.6	....	...	0 50 25.4	....	...
123	6 36	3.2	....	...	0 56 32.8	....	...
124	9 16	3.9	9 29	20.1	0 59 12.1	8.9	+ 3.2	
125	2 17	2.1	....	...	0 52 14.9	....	...
126	9 44	4.1	10 6	20.2	0 59 39.9	45.8	- 5.9	
127	3 41	2.5	....	...	0 53 38.5	....	...
128	5 24	2.9	....	...	0 55 21.1	....	...
129	....	...	10 2	20.2	0 59	41.8	...	
130	3 32	2.4	....	...	0 53 29.6	....	...
131	2 54	2.3	....	...	0 52 51.7	....	...
132	1 34	1.9	....	...	0 51 32.1	....	...
133	5 1	2.8	....	...	0 54 58.2	....	...
134	9 31	4.0	....	...	0 59 27.0	....	...
135	+ 6 57	- 3.3	+ 7 16	-19.4	+ 0 56 53.7	56.6	- 2.9	

ZONE OBSERVATIONS.

A.R. $\overset{h}{7} \overset{m}{8}$ to $\overset{h}{8} \overset{m}{20}$.Dec. $+\overset{\circ}{0} \overset{'}{50}$ to $\overset{\circ}{1} \overset{'}{0}$.

Number of the Star.	Magnitude.	ZONE 166.					ZONE 169.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	λ .	First Wire.		Second Wire.	Mean red. to 1st Wire.	λ .	Zone 166.		Zone 169.	
		$\overset{h}{8} \overset{m}{7}$	$\overset{s}{31.7}$	$\overset{s}{35.5}$	$\overset{s}{31.60}$	$\overset{s}{+1.99}$	$\overset{h}{8} \overset{m}{7}$	$\overset{s}{33.5}$	$\overset{s}{37.5}$	$\overset{s}{35.50}$	$\overset{s}{+0.11}$	$\overset{h}{8} \overset{m}{7}$	$\overset{s}{33.59}$	$\overset{s}{33.61}$	$\overset{s}{-0.02}$
136	9-10														
137	10														
138	10-11														
139	10														
140	9-10														
141	10														
142	10														
143	8-9														
144	10														
145	11														
146	10														
147	10														
148	9-11														
149	9-10														
150	11-12														
151	11-12														
152	10														
153	11-12														
154	11														
155	11-12														
156	9-10														
157	10-12														
158	9-10														
159	.....													

A.R. $\overset{h.}{7} \overset{m.}{8}$ to $\overset{h.}{8} \overset{m.}{20}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 166.	d.	Zone 169.	d.	Zone 166.	Zone 169.		
136	+ 6 1	- 3.1	+ 6 17	-19.1	+ 0 55 57.9	57.9	0.0	
137	7 0	3.3	....	....	0 56 56.7	....	...
138	3 30	2.4	3 38	18.3	0 53 27.6	19.7	+ 7.9	
139	2 25	2.1	2 37	17.8	0 52 22.9	19.2	+ 3.7	
140	9 47	4.1	10 8	20.1	0 59 42.9	47.9	- 5.0	
141	5 12	2.9	5 32	18.8	0 55 9.1	13.2	- 4.1	
142	9 18	3.9	9 27	20.0	0 59 14.1	7.0	+ 7.1	
143	4 38	2.7	4 54	18.6	0 54 35.3	35.4	- 0.1	
144	10 16	4.1	....	....	1 0 11.9	....	...
145	8 6	3.6	8 22	19.6	0 58 2.4	2.4	0.0	
146	3 17	2.3	3 32	18.2	0 53 14.7	13.8	+ 0.9	
147	3 31	2.4	3 44	18.2	0 53 28.6	25.8	+ 2.8	
148	9 5	3.8	....	....	0 59 1.2	....	...
149	1 28	1.9	1 48	17.7	0 51 26.1	30.3	- 4.2	
150	2 28	2.1	2 39	17.7	0 52 25.9	21.3	+ 4.6	
151	1 52	2.0	2 6	17.7	0 51 50.0	48.3	+ 1.7	
152	5 46	3.0	....	....	0 54 43.0	....	...
153	4 20	2.6	....	....	0 54 17.4	....	...	More isolated bright stars than usual.
154	6 19	3.1	....	....	0 56 15.9	....	...
155	7 27	3.4	....	....	0 57 23.6	....	...
156	8 15	3.6	8 29	19.5	0 58 11.4	9.5	+ 1.9	
157	2 56	2.2	3 14	18.0	0 52 53.8	56.0	- 2.2	
158	+ 7 52	- 3.5	....	....	0 57 48.5	....	...
159	....	....	+ 8 51	-19.6	+ 0 58	31.4	...	

A.R. ^{h.} 8 ^{m.} 18 to ^{h.} 9 ^{m.} 19.Dec. +⁰ 50 to ¹ 0.

Number of the Star.	Magnitude.	ZONE 167.					ZONE 172.					MEAN RIGHT ASCENSION. 1860.0				Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 167.		Zone 172.		
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	s.	h. m. s.	s.	s.			
1	.....	.....	.....	.....	.....	8 18 8.9	12.9	8.90	+0.26	8 18	.....	9.16	.....		
2	.....	.....	.....	.....	.....	18 44.0	47.9	43.95	0.26	18	.....	44.21	.....		
3	.....	.....	.....	.....	.....	19 37.4	41.4	37.40	0.25	19	.....	37.65	.....		
4	10-11	8 19 48.3	52.0	48.15	+2.01	19 50.3	54.0	50.15	0.26	19 50.16	50.41	-0.25	.....		
5	8	20 27.0	31.0	27.00	2.00	20 28.7	32.7	28.70	0.25	20 29.00	28.95	+0.05	.....		
6	.....	.....	.....	.....	.....	20 59.9	63.7	59.80	0.25	21	.....	0.05	.....		
7	10-11	21 26.6	30.7	26.65	2.01	21 28.4	32.3	28.35	0.25	21 28.66	28.60	+0.06	.....		
8	10-11	21 45.3	.....	45.30	2.01	21 46.9	51.0	46.95	0.24	21 47.31	47.19	+0.12	.....		
9	.....	.....	.....	.....	.....	22 9.5	13.4	9.45	0.25	22	.....	9.70	.....		
10	9-10	23 31.6	35.6	31.60	2.03	23 33.2	37.2	33.20	0.24	23 33.63	33.44	+0.19	.....		
11	9-10	24 46.5	.....	46.50	2.03	24 48.3	52.2	48.25	0.24	24 48.53	48.49	+0.04	.....		
12	11	25 22.0	26.0	22.00	2.03	25 23.8	27.8	23.80	0.24	25 24.03	24.04	-0.01	.....		
13	9-10	25 45.3	49.5	45.40	2.05	25 47.2	51.1	47.15	0.24	25 47.45	47.39	+0.06	.....		
14	11	25	.....	52.1	48.10	.....	.....	.....	.....	25 50.14	.....	.....	.....
15	11	26 17.6	21.6	17.60	2.04	26 19.2	23.1	19.15	0.23	26 19.64	19.38	+0.26	.....		
16	9-11	27 10.3	.....	10.30	2.05	27 12.1	15.8	11.95	0.24	27 12.35	12.19	+0.16	.....		
17	9-11	27 20.0	23.9	19.95	2.05	27 22.0	25.7	21.80	0.23	27 22.00	22.03	-0.03	.....		
18	11-12	27 46.0	50.0	46.00	2.05	27 48.0	51.8	47.90	0.23	27 48.05	48.13	-0.08	.....		
19	7-8	27 55.2	59.1	55.15	2.06	27 57.0	60.9	56.95	0.24	27 57.21	57.19	+0.02	.....		
20	.....	.....	.....	.....	.....	28 27.1	31.1	27.10	0.24	28	.....	27.34	.....		
21	9-10	29 22.0	.....	22.00	2.07	29 23.8	27.8	23.80	0.23	29 24.07	24.03	+0.04	.....		
22	9-10	.....	.....	.....	.....	29 42.3	46.3	42.30	0.23	29	.....	42.53	.....		
23	10	29 41.0	45.1	41.05	2.06	29 42.9	46.8	42.85	0.23	29 43.11	43.08	+0.03	.....		
24	10-11	30 20.6	24.6	20.60	2.06	30 22.5	26.4	22.45	0.22	30 22.66	22.67	-0.01	.....		
25	10	30 46.0	.....	46.00	2.07	30 47.9	.....	47.90	0.22	30 48.07	48.12	-0.05	.....		
26	10-11	30	.....	50.8	46.80	30	.....	52.6	48.60	30 48.87	48.83	+0.04	.....		
27	10-11	.....	.....	.....	.....	31 35.1	38.9	35.00	0.22	31	.....	35.22	.....		
28	9-10	31 59.5	63.4	59.45	2.06	32 1.3	5.2	1.25	0.22	32 1.51	1.47	+0.04	.....		
29	10-11	32 1.2	5.3	1.25	2.06	.....	.....	.....	.....	32 3.31	.....	.....	.....
30	.....	.....	.....	.....	.....	34 4.6	8.4	4.50	0.22	34	.....	4.72	.....		
31	9-10	.....	.....	.....	.....	34 45.3	49.2	45.25	0.21	34	.....	45.46	.....		
32	.....	.....	.....	.....	.....	35 20.1	24.1	20.10	0.22	35	.....	20.32	.....		
33	.....	.....	.....	.....	.....	35 47.6	51.6	47.60	0.21	35	.....	47.81	.....		
34	10-11	37 40.2	44.1	40.15	2.10	37 41.8	45.9	41.85	0.21	37 42.25	42.06	+0.19	.....		
35	10	38 12.2	16.2	12.20	2.10	38 14.0	18.0	14.00	0.21	38 14.30	14.21	+0.09	.....		
36	10-11	38 18.0	22.0	18.00	2.10	38 19.8	23.9	19.85	0.21	38 20.10	20.06	+0.04	.....		
37	.....	.....	.....	.....	.....	38 35.6	39.5	35.55	0.21	38	.....	35.76	.....		
38	9	39 18.8	23.0	18.90	2.11	39 20.7	24.6	20.65	0.21	39 21.01	20.86	+0.15	.....		
39	11-12	41 25.6	29.8	25.70	2.12	.....	.....	.....	.....	41 27.82	.....	.....	.....
40	9-10	41 35.5	39.2	35.35	2.13	41 37.3	41.3	37.30	0.20	41 37.48	37.50	-0.02	.....		
41	10-12	41 59.2	62.9	59.05	2.12	42 1.0	5.0	1.00	0.20	42 1.17	1.20	-0.03	.....		
42	9-10	42 32.4	36.4	32.40	2.12	42 34.1	38.1	34.10	0.20	42 34.52	34.30	+0.22	.....		
43	9	42 49.9	54.0	49.95	2.11	42 51.9	55.9	51.90	0.20	42 52.06	52.10	+0.04	.....		
44	10-11	43 23.3	27.2	23.25	2.13	43 25.1	28.8	24.95	0.20	43 25.38	25.15	+0.23	.....		
45	.....	8 43 50.5	54.4	50.45	+2.13	8 43 52.3	56.3	52.30	+0.20	8 43 52.58	52.50	+0.08	.....		

A.R. ^{h.}8 ^{m.}18 to ^{h.}9 ^{m.}19.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 167.	d.	Zone 172.	d.	Zone 167.	Zone 172.		
1	' "	"	+ 8 15	- 3.4	+ 0 58	11.6	"	
2	....	...	2 57	2.3	0 52	54.7	...	
3	....	...	7 53	3.1	0 57	49.9	...	
4	+ 4 8	- 1.8	4 6	2.3	0 54 6.2	3.7	+ 2.5	
5	8 38	2.9	8 36	3.0	0 58 35.1	33.0	+ 2.1	
6	....	...	6 56	2.6	0 56	53.4	...	
7	7 53	2.6	7 52	2.7	0 57 50.4	49.3	+ 1.1	
8	9 49	3.2	9 49	3.2	0 59 45.8	45.8	0.0	
9	....	...	1 40	1.5	0 51	38.5	...	
10	8 53	0.6	4 56	1.8	0 54 52.4	54.2	- 1.8	Zone (h) probably right.
11	7 3	2.0	7 6	1.9	0 57 1.0	4.1	- 3.1	
12	6 0	1.7	6 2	2.2	0 55 58.3	59.8	- 1.5	
13	1 18	0.4	1 18	0.7	0 51 17.6	17.3	+ 0.3	
14	6 1	1.6	....	...	0 55 59.4	....	...
15	6 32	1.6	6 34	1.4	0 56 30.4	32.6	- 2.2	
16	1 57	0.4	1 53	0.5	0 51 56.6	52.5	+ 4.1	
17	4 36	1.1	4 36	1.0	0 54 34.9	35.0	- 0.1	
18	3 39	- 0.7	3 38	0.7	0 53 38.3	37.3	+ 1.0	
19	0 32	0.0	0 34	- 0.1	0 50 32.0	33.9	- 1.9	
20	....	...	0 37	0.0	0 50	37.0	...	
21	0 26	+ 0.2	0 25	+ 0.2	0 50 26.2	25.2	+ 1.0	
22	1 28	0.0	1 26	0.0	0 51 28.0	26.0	+ 2.0	
23	1 48	- 0.1	1 47	0.0	0 51 47.9	47.0	+ 0.9	
24	7 58	1.7	7 58	- 1.1	0 57 56.3	56.9	- 0.6	
25	3 27	- 0.4	3 34	- 0.1	0 53 26.6	33.9	- 7.3	
26	0 54	+ 0.3	0 52	+ 0.4	0 50 54.3	52.4	+ 1.9	
27	5 2	- 0.7	5 2	- 0.3	0 55 1.3	1.7	- 0.4	
28	9 41	1.9	9 41	- 1.1	0 59 39.1	39.9	- 0.8	A curious group of three stars.
29	9 8	1.8	....	...	0 59 6.2	....	...
30	....	...	0 45	+ 1.0	0 50	46.0	...	
31	6 33	0.8	6 33	0.0	0 56 32.2	33.0	- 0.8	
32	....	...	3 52	+ 0.3	0 53	52.3	...	
33	....	...	8 27	- 0.1	0 58	26.9	...	
34	5 4	- 0.1	5 4	+ 0.9	0 55 3.9	4.9	- 1.0	
35	2 34	+ 0.6	2 30	1.7	0 52 34.6	31.7	+ 2.9	
36	6 41	- 0.5	6 41	0.7	0 56 40.5	41.7	- 1.2	
37	....	...	4 5	1.4	0 54	6.4	...	
38	1 29	+ 0.9	1 27	1.9	0 51 29.9	28.9	+ 1.0	
39	2 33	0.9	....	...	0 52 33.9	....	...
40	0 50	1.3	0 49	2.5	0 50 51.3	51.5	- 0.2	
41	3 28	0.7	3 24	2.0	0 53 28.7	26.0	+ 2.7	
42	4 7	0.6	3 4	2.2	0 54 7.6	6.2	+ 1.4	Zone (a) probably right.
43	4 22	0.6	4 19	2.0	0 54 22.6	21.0	+ 1.6	
44	+ 1 49	+ 1.3	+ 1 47	+ 2.6	+ 0 51 50.3	49.6	+ 0.7	
45	....	...	....	...	.....	....	...

A.R. ^{h.} 8 ^{m.} 18 to ^{h.} 9 ^{m.} 19.Dec. +^o 50 to ⁱ 6.

Number of the Star.	Magnitude.	ZONE 167.					ZONE 172.					MEAN RIGHT ASCENSION 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 167.	Zone 172.			
46	10-11	h. m. s. s. s.	25.1	21.10	+2.14	h. m. s. s. s.	27.1	23.10	+0.19	h. m. s. s. s.	23.29	-0.05		
47	10-11	8 45 21.1	44.4	40.40	2.14	8 45 23.1	46.5	42.50	0.19	8 45 23.24	42.69	-0.15		
48	9	45 49.9	53.9	49.90	2.14	45 42.5	55.7	51.65	0.19	45 42.54	51.84	+0.20		
49	10-11	46 35.9	39.9	35.90	2.14	45 51.6	41.8	37.80	0.18	45 52.04	37.98	+0.06		
50	10-11	47 49.7	53.8	49.75	2.15	46 37.8	55.7	51.75	0.18	46 38.04	51.93	-0.03		
51	9-10	47	54.7	50.70	2.14	47 51.8	56.5	52.65	0.18	47 51.90	52.83	+0.01		
52	9-10	48 40.0	....	40.00	2.16	47 52.8	45.8	41.80	0.18	47 52.84	41.98	+0.18	
53	9-10	49 17.8	....	17.80	2.15	48 41.8	23.6	19.60	0.17	48 42.16	19.77	+0.18	
54	8-9	49 31.7	....	31.70	2.16	49 19.6	37.5	33.55	0.18	49 19.95	33.73	+0.13	
55	10	50 55.5	59.3	55.40	2.16	49 33.6	61.5	57.40	0.17	49 33.86	57.57	-0.01		
56	10-12	.....	.....	.....	.....	50 57.3	9.00	.....	0.17	50 57.56	9.17	.....	
57	.....	.....	.....	.....	.....	52 9.0	54.8	50.75	0.17	52 9.17	50.92	.....	
58	11-12	53 27.3	31.3	27.30	2.18	52 50.7	33.0	29.05	0.17	52 50.92	29.22	+0.26		
59	10-11	53 43.7	47.7	43.70	2.18	53 29.1	49.5	45.60	0.16	53 29.48	45.76	+0.12		
60	10	53 48.8	....	48.80	2.18	53 45.7	54.8	50.85	0.16	53 45.88	51.01	-0.03	
61	9-10	.....	.....	.....	.....	53 50.9	25.9	21.90	0.16	53 50.98	22.06	.....	
62	10-11	54 49.8	....	49.80	2.19	54 21.9	55.5	51.55	0.16	54 22.06	51.71	+0.28	
63	9-10	54 57.5	61.4	57.45	2.18	54 51.6	63.4	59.45	0.16	54 51.99	59.61	+0.02		
64	9	55 36.9	....	36.90	2.18	54 59.5	43.0	38.95	0.16	54 59.63	39.11	-0.03	
65	..	.....	.....	.....	.....	55 38.9	51.1	47.10	0.16	55 39.08	47.26	.....	
66	9-10	8 56 17.6	21.6	17.60	2.18	55 47.1	19.65	.....	0.15	55 47.26	19.80	-0.02	
67	.....	.....	.....	.....	.....	56 19.8	20.85	.....	0.15	56 19.78	21.00	.....	
68	.....	.....	.....	.....	.....	58 20.8	33.25	.....	0.15	58 21.00	33.40	.....	
69	.....	.....	.....	.....	.....	58 33.3	52.30	.....	0.15	58 33.40	52.45	.....	
70	.....	.....	.....	.....	.....	8 59 52.3	21.0	17.10	0.14	8 59 52.45	17.24	.....	
71	.....	.....	.....	.....	.....	9 0 17.2	30.20	.....	0.14	9 0 17.24	30.34	.....	
72	.....	.....	.....	.....	.....	0 30.2	35.9	31.95	0.14	0 30.34	32.09	.....	
73	10-11	9 2 56.0	60.0	56.00	2.22	2 32.0	61.8	57.85	0.13	2 32.09	57.98	+0.24		
74	10-11	3 3.7	7.7	3.70	2.23	2 57.9	9.6	5.65	0.14	2 58.22	5.79	+0.14		
75	7	4 15.4	19.5	15.45	2.24	3 5.7	21.5	17.45	0.14	3 5.93	17.59	+0.10		
76	9-10	5 10.0	14.1	10.05	2.23	4 17.4	16.0	12.10	0.12	4 17.69	12.22	+0.06		
77	9	5 36.4	40.5	36.45	2.24	5 12.2	42.5	38.55	0.13	5 12.28	38.68	+0.01		
78	10-11	5 48.7	52.4	48.55	2.24	5 38.6	54.5	50.55	0.13	5 38.69	50.68	+0.11		
79	10	6 13.2	17.1	13.15	2.24	5 50.6	19.0	15.00	0.13	5 50.79	15.13	+0.26		
80	10-11	6 33.7	37.8	33.75	2.25	6 15.0	39.6	35.60	0.13	6 15.39	35.73	+0.27		
81	9-10	6	61.2	57.20	2.25	6 35.6	63.1	59.10	0.13	6 36.00	59.23	+0.22		
82	9	6 58.9	62.5	58.70	2.25	6	4.7	0.70	0.13	6 59.45	0.83	+0.12		
83	10	7 5.1	9.1	5.10	2.24	7 0.7	11.0	7.00	0.12	7 0.95	7.12	+0.22		
84	9-10	7 26.0	30.1	26.05	2.25	7	32.1	28.05	0.12	7 7.34	28.17	+0.13		
85	10-11	7 46.0	50.2	46.10	2.26	7 28.0	52.0	48.10	0.12	7 28.30	48.22	+0.14		
86	.....	.....	.....	.....	.....	7 48.2	29.6	25.65	0.11	7 48.36	25.76	.....	
87	.....	.....	.....	.....	.....	8 25.7	48.6	44.65	0.12	8 25.76	44.77	.....	
88	.....	.....	.....	.....	.....	8 44.7	15.1	11.05	0.12	8 44.77	11.17	.....	
89	9-10	10 4.7	....	4.70	2.25	9 11.0	10.7	6.75	0.11	9 11.17	6.86	+0.09	
90	10	9 10 8.3	12.2	8.25	+2.27	10 6.8	14.4	10.40	+0.12	10 6.95	10.52	0.00		

A.R. ^{h.} 8 ^{m.} 18 to ^{h.} 9 ^{m.} 19.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 167.	d.	Zone 172	d.	Zone 167.	Zone 172.		
46	+ 3 27	+ 1.0	+ 3 26	+ 2.6	+ 0 53 28.0	28.6	- 0.6	
47	4 23	0.8	4 20	2.6	0 54 23.8	22.6	+ 1.2	
48	6 53	0.2	6 53	2.1	0 56 53.2	55.1	- 1.9	
49	6 0	0.5	6 0	2.5	0 56 0.5	2.5	- 2.0	
50	3 8	+ 1.4	3 9	3.2	0 53 9.4	12.2	- 2.8	
51	9 10	- 0.2	9 6	2.1	0 59 9.8	8.1	+ 1.7	
52	2 28	+ 1.6	2 26	3.5	0 52 29.6	29.5	+ 0.1	
53	9 49	- 0.2	9 47	2.3	0 59 48.8	49.3	- 0.5	
54	5 25	+ 1.0	5 24	3.1	0 55 26.0	27.1	- 1.1	{ A star precedes. 8 ^s , reads 6' 41". 9-10 mag.
55	6 54	0.8	6 52	3.1	0 56 54.8	55.1	- 0.3	
56	5 39	1.2	5 36	3.3	0 55 40.2	39.3	+ 0.9	
57	....	...	2 53	4.2	0 52	57.2	...	
58	2 53	2.0	2 51	4.3	0 52 55.0	55.3	- 0.3	
59	4 58	1.5	4 56	4.0	0 54 59.5	60.0	- 0.5	
60	6 58	1.0	7 58	3.4	0 57 59.0	61.4	- 2.4	
61	6 30	1.2	6 32	3.8	0 56 31.2	35.8	- 4.6	
62	1 21	1.6	2 21	4.7	0 51 22.6	25.7	- 3.1	
63	8 53	0.6	8 52	3.4	0 58 53.6	55.4	- 1.8	
64	7 25	1.1	7 25	3.9	0 57 26.1	28.9	- 2.8	
65	....	...	4 29	4.4	0 54	33.4	...	
66	9 6	0.7	9 7	3.7	0 59 6.7	10.7	- 4.0	Vacant field.
67	....	...	7 50	4.3	0 57	54.3	...	
68	....	...	5 45	4.7	0 55	49.7	...	
69	....	...	3 32	5.4	0 53	37.4	...	
70	....	...	8 41	4.5	0 58	45.5	...	
71	....	...	9 38	4.4	0 59	42.4	...	
72	....	...	0 44	6.4	0 50	50.4	...	
73	6 33	2.1	6 30	5.4	0 56 35.1	35.4	- 0.3	
74	4 55	2.5	4 52	5.7	0 54 57.5	57.7	- 0.2	
75	1 41	3.5	1 38	6.6	0 51 44.5	44.6	- 0.1	A red star.
76	9 48	1.5	9 46	5.2	0 59 49.5	51.2	- 1.7	
77	3 53	3.1	3 51	6.4	0 53 56.1	57.4	- 1.3	
78	2 4	3.6	2 1	6.9	0 52 7.6	7.9	- 0.3	
79	5 51	2.6	5 52	6.2	0 55 53.6	58.2	- 4.6	
80	+ 0 54	3.9	0 53	7.1	0 50 57.9	60.1	- 2.2	
81	- 0 4	4.2	....	...	0 50 0.2	....	...
82	+ 3 20	3.3	3 19	6.8	0 58 23.3	25.8	- 2.5	
83	6 16	2.6	6 17	6.2	0 56 18.6	23.2	- 4.6	
84	6 9	2.7	6 8	6.4	0 56 11.7	14.4	- 2.7	
85	1 19	3.9	1 17	7.4	0 51 22.9	24.4	- 1.5	
86	....	...	9 14	6.3	0 59	20.3	...	
87	....	...	2 9	7.4	0 52	16.4	...	
88	....	...	2 20	7.4	0 52	27.4	...	
89	10 ..	...	10 8	6.1	1 0	14 1	...	
90	+ 2 20	+ 3.9	+ 2 15	+ 7.6	+ 0 52 23.9	22.6	+ 1.3	

A.R. ^{h.} 8 ^{m.} 18 to ^{h.} 9 ^{m.} 19.Dec. +⁰ 50 to ⁰ 0.

Number of the Star.	Magnitude.	ZONE 167.					ZONE 172.					MEAN RIGHT ASCENSION. 1860.0			Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 167.		Zone 172.	
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	
91	..	.....	.....	.....	.....		9 10 25.1	29.2	25.15	+0.11		9 10	25.26	.....
92	..	.....	.....	.....	.....		10 31.1	35.2	31.15	0.11		10	31.26	.....
93	10	9 11 13.6	17.6	13.60	+2.26		11 15.5	19.6	15.55	0.11		11 15.86	15.66	+0.20	
94	9-10	11 41.3	45.2	41.25	2.26		11 43.3	47.3	43.30	0.11		11 43.51	43.41	+0.10	
95	10	11 52.6	56.4	52.50	2.27		11 54.6	58.7	54.65	0.11		11 54.77	54.76	+0.01	
96	..	.....	.....	.....	.....		12 15.8	19.7	15.75	0.11		12	15.86	.....
97	9	13 12.3	16.2	12.55	2.28		13 14.6	18.5	14.55	0.11		13 14.83	14.66	+0.17	
98	..	.....	.....	.....	.....		14 36.5	40.5	36.50	0.10		14	36.60	.....
99	11	9 15 44.0	48.0	44.00	+2.28		15 46.3	50.2	46.25	0.10		15 46.28	46.35	-0.07	
100	..	.....	.....	.....	.....		16 37.2	41.1	37.15	0.10		16	37.25	.....
101	10	.....	.....	.....	.....		17 24.8	29.0	24.90	0.10		17	25.00	.....
102	10	.....	.....	.....	.....		17 44.2	48.3	44.25	0.10		17	44.35	.....
103	9-10	.....	.....	.....	.....		18 39.9	44.0	39.95	0.09		18	40.04	.....
104	10	.....	.....	.....	.....		9 19 13.0	16.8	12.90	+0.09		9 19	12.99	.....

A.R. $\overset{h.}{8} \overset{m.}{18}$ to $\overset{h.}{9} \overset{m.}{19}$.Dec. $+0^{\circ} 50'$ to $1^{\circ} 0'$.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 187.	d.	Zone 172.	d.	Zone 187.	Zone 172		
91	+ 7 17	+ 6.7	+ 0 57	23.7	...	Comp., n. p., 16".
92	....	...	8 17	6.5	0 58	23.5	...
93	+ 9 10	+ 2.2	9 9	6.5	0 59 12.2	15.5	- 3.3	
94	10 38	1.9	10 38	6.3	1 0 39.9	44.3	- 4.4	
95	6 2	3.1	5 56	6.2	0 56 5.1	2.2	+ 2.9	
96	5 2	7.5	0 55	9.5	...	Many pairs of stars in this region.
97	2 26	4.2	2 22	8.1	0 52 30.2	30.1	+ 0.1	
98	....	...	9 26	7.4	0 59	33.4	...
99	+ 8 33	+ 2.9	8 32	7.4	0 58 35.9	39.4	- 3.5	
100	....	...	9 13	7.4	0 59	20.4	...
101	3 3	8.8	0 53	11.8	...	Spring governor failed.
102	....	...	6 13	8.2	0 56	21.2	...
103	....	...	8 51	7.9	0 58	58.9	...
104	....	...	+ 9 31	+ 7.8	+ 0 59	38.8	...

ZONE OBSERVATIONS.

A.R. ^{h.} 9 ^{m.} 11 to ^{h.} 9 ^{m.} 46.Dec. +^o 50 to ⁱ 6.

Number of the Star.	Magnitude.	ZONE 168.					ZONE 174.					MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 168.		Zone 174.			
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.			
1	10	.....	.....	.....	.....		9 11 44.0	47.8	43.90	-0.26		9 11	43.64	.....		
2	10	.....	.....	.....	.....		11 55.1	59.1	55.10	0.26		11	54.84	.....		
3	10	.....	.....	.....	.....		12 16.2	20.3	16.25	0.26		12	15.99	.....		
4	8	.....	.....	.....	.....		13 15.1	19.1	15.10	0.28		13	14.82	.....		
5	9-10	.....	.....	.....	.....		14 37.1	41.0	37.05	0.31		14	36.74	.....		
6	10-11	.....	.....	.....	.....		15 0.0	4.0	0.00	0.31		14	59.69	.....		
7	10	.....	.....	.....	.....		15 46.9	50.8	46.85	0.32		15	46.53	.....		
8	10-11	.....	.....	.....	.....		16 37.7	41.7	37.70	0.34		16	37.36	.....		
9	10	.....	.....	.....	.....		17 25.3	29.3	25.30	0.34		17	24.96	.....		
10	10	.....	.....	.....	.....		17 44.8	48.9	44.85	0.35		17	44.50	.....		
11	9-10	.....	.....	.....	.....		18 40.6	44.4	40.50	0.37		18	40.13	.....		
12	10-11	.....	.....	.....	.....		18	49.3	45.30	0.36		18	44.94	.....		
13	10-11	.....	.....	.....	.....		19 13.6	17.3	13.45	0.38		19	13.07	.....		
14	10	.....	.....	.....	.....		19 56.4	60.4	56.40	0.39		19	56.01	.....		
15	11	.....	.....	.....	.....		20 42.1	46.2	42.15	0.40		20	41.75	.....		
16	10-11	.....	.....	.....	.....		21 0.9	4.9	0.90	0.40		21	0.50	.....		
17	10-11	9 21 41.3	48.1	44.20	+2.31		21 47.0	51.0	47.00	0.42		21 46.51	46.58	-0.07			
18	10-11	22 1.0	5.0	1.00	2.31		22 3.7	7.8	3.75	0.42		22 3.31	3.33	-0.02			
19	.....	.....	.....	.....	.....		22 14.2	18.3	14.25	0.42		22	13.83	.....		
20	.....	.....	.....	.....	.....		22 28.9	32.7	28.80	0.42		22	28.38	.....		
21	..	.....	.....	.....	.....		22 34.4	38.3	34.35	0.43		22	33.92	.....		
22	10	23 30.2	34.1	30.15	2.30		23 33.0	37.1	33.05	0.44		23 32.45	32.61	-0.16			
23	10	24 30.3	34.2	30.25	2.27		24 33.0	36.9	32.95	0.46		24 32.52	32.49	+0.03			
24	11	24 56.3	60.2	56.25	2.28		24	62.8	58.80	0.47		24 58.53	58.33	+0.20			
25	..	.....	.....	.....	.....		25 0.8	4.8	0.80	0.46		25	0.34	.....		
26	10	25 34.6	38.6	34.60	2.26		25 37.5	41.6	37.55	0.48		25 36.86	37.07	-0.21			
27	9	27 8.7	12.6	8.65	2.23		.....	.....	.....	.....		27 10.88	.....	.....	
28	10	27 51.8	55.7	51.75	2.21		27 54.5	58.4	54.45	0.52		27 53.96	53.93	+0.03			
29	10-11	29 18.0	21.9	17.95	2.22		29 20.9	24.9	20.90	0.53		29 20.17	20.37	-0.20			
30	11	30 4.1	8.3	4.20	2.21		30 6.8	10.8	6.80	0.54		30 6.41	6.26	-0.15			
31	10-11	30 45.1	48.9	45.00	2.20		30 47.7	51.7	47.70	0.55		30 47.20	47.15	+0.05			
32	10	31 24.9	28.8	24.85	2.18		31 27.7	31.6	27.65	0.57		31 27.03	27.08	-0.05			
33	10-11	32 22.4	26.3	22.35	2.16		32 25.1	29.0	25.05	0.59		32 24.51	24.46	+0.05			
34	11-12	32 38.7	42.5	38.60	2.15		32 41.7	45.3	41.50	0.59		32 40.75	40.91	-0.16			
35	11-12	35 34.8	38.9	34.85	2.11		35 37.3	41.3	37.30	0.64		35 36.96	36.66	-0.30			
36	11	36 5.7	9.7	5.70	2.10		36 8.5	12.2	8.35	0.65		36 7.80	7.70	+0.10			
37	10-11	39 20.5	24.5	20.50	2.05		39 23.6	27.5	23.55	0.70		39 22.55	22.85	-0.30			
38	9-10	40 17.0	....	17.00	2.05		40 19.8	23.7	19.75	0.71		40 19.05	19.04	+0.01		
39	10-11	40 24.3	....	24.30	2.05		40 27.3	31.1	27.20	0.71		40 26.35	26.49	-0.14		
40	11-12	41 40.8	44.9	40.85	2.02		41 43.8	47.5	43.65	0.73		41 42.87	42.92	-0.05			
41	10-11	42 16.1	20.1	16.10	2.01		42 18.8	22.7	18.75	0.74		42 18.11	18.01	+0.10			
42	11-12	43 8.3	12.3	8.30	2.01		43 11.1	15.1	11.10	0.75		43 10.31	10.35	-0.04			
43	9-10	43 21.0	25.0	21.00	1.99		43 23.8	27.6	23.70	0.76		43 22.99	22.94	+0.05			
44	11	43	29.3	25.30	1.99		43	32.1	28.10	0.76		43 27.29	27.34	-0.05			
45	9	9 44 6.6	10.4	6.50	+1.98		9 44 9.3	13.3	9.30	-0.78		9 44 8.48	8.52	-0.04			

A.R. ^{h.}9 ^{m.}11 to ^{h.}9 ^{m.}46.

Dec. +0° 50' to 1° 0'.

Number.	MICROMETER READINGS				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 168.	d.	Zone 174.	d.	Zone 168.	Zone 174.		
1	' "	"	+10 51	- 0.9	+ 1 0 ."	50.1	"	
2	....	...	6 2	+ 0.1	0 56	2.1	...	
3	....	...	5 6	0.3	0 55	6.3	...	
4	....	...	2 29	+ 1.0	0 52	30.0	...	
5	....	...	9 31	- 0.1	0 59	30.9	...	
6	....	...	6 8	+ 0.6	0 56	8.6	...	
7	....	...	8 36	0.3	0 58	36.3	...	
8	....	...	9 19	0.5	0 59	19.5	...	
9	....	...	3 4	1.7	0 53	5.7	...	
10	....	...	6 18	1.0	0 56	19.0	...	
11	....	...	8 53	0.7	0 58	53.7	...	
12	....	...	2 11	2.0	0 52	13.0	...	
13	....	...	9 38	0.7	0 59	38.7	...	
14	....	...	9 5	1.0	0 59	6.0	...	
15	....	...	5 10	1.8	0 55	11.8	...	
16	....	...	0 39	2.7	0 50	41.7	...	
17	+ 9 59	+ 2.8	10 2	1.1	1 0 1.8	3.1	- 1.3	
18	9 26	3.2	9 51	1.1	0 59 29.2	52.1	...	
19	....	...	9 28	1.2	0 59	29.2	...	
20	....	...	2 41	1.5	0 52	42.5	...	
21	....	...	6 11	1.9	0 56	12.9	...	
22	5 16	4.6	5 20	2.2	0 55 20.6	22.2	- 1.6	
23	9 1	3.8	9 4	1.9	0 59 4.8	5.9	- 1.1	
24	5 1	4.9	5 5	2.5	0.55 5.9	7.5	- 1.6	
25	....	...	2 49	2.9	0 52	51.9	...	
26	9 50	3.8	9 54	1.6	0 59 53.8	55.6	- 1.8	
27	10 41	3.9	....	...	1 0 44.9	....	...
28	8 59	4.5	9 1	2.3	0 59 3.5	3.3	+ 0.2	
29	1 59	6.6	2 2	3.8	0 52 5.6	5.8	- 0.2	
30	2 ..	6.6	2 51	3.8	0 52	54.8	...	
31	0 44	7.2	0 47	4.3	0 50 51.2	51.3	- 0.1	
32	6 25	5.9	6 27	3.4	0 56 30.9	30.4	+ 0.5	
33	6 59	6.0	7 2	3.5	0 57 5.0	5.5	- 0.5	
34	7 28	5.9	7 28	3.4	0 57 33.9	31.4	+ 2.5	
35	9 29	6.0	9 40	3.6	0 59 35.0	43.6	- 8.6	Vacant field. { A nebula precedes* No. 35 by 45°. Dec. +0° 58' 6", h. 626.
36	8 58	6.2	8 59	3.8	0 59 4.2	2.8	+ 1.4	
37	8 12	7.0	8 17	4.5	0 58 19.0	21.5	- 2.5	
38	3 30	8.5	3 30	5.5	0 53 38.5	35.5	+ 3.0	
39	3 50	8.4	3 50	5.5	0 53 58.4	55.5	+ 2.9	
40	6 4	8.1	6 8	5.3	0 56 12.1	13.3	- 1.2	
41	6 16	8.1	6 19	5.4	0 56 24.1	24.4	- 0.3	
42	1 41	9.6	1 43	6.3	0 51 50.6	49.3	+ 1.3	
43	7 12	8.1	7 18	5.4	0 57 20.1	23.4	- 3.3	
44	6 51	8.2	6 56	5.4	0 56 59.2	61.4	- 2.2	
45	+ 7 44	+ 8.1	+ 7 46	+ 5.4	+ 0 57 52.1	51.4	+ 0.7	

ZONE OBSERVATIONS.

A.R. ^{h.}9 ^{m.}11 to ^{h.}9 ^{m.}46.Dec. [°]+0 [']50 to [°]1 [']0.

Number of the Star.	Magnitude.	ZONE 168.				ZONE 174.				MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	First Wire.		Second Wire.	Mean red. to 1st Wire.	Zone 168.	Zone 174.	
		h. m. s.	s.	s.	s.	h. m. s.	s.	s.	s.	h. m. s.	s.	
46	10	9 44 28.5	32.5	28.50	+1.98	9 44 31.2	35.3	31.25	-0.78	9 44 30.48	30.47	+0.01
47	10	45 1.6	5.7	1.65	1.97	45 4.3	8.4	4.35	0.79	45 3.62	3.56	+0.06
48	10-11	45 53.0	56.8	52.90	1.95	45 55.8	59.8	55.80	0.80	45 54.85	55.00	-0.15
49	9-10	9 46 22.3	26.5	22.40	+1.94	9 46 25.1	25.0	25.05	-0.81	9 46 24.34	24.24	+0.10

A.R. ^{h.}9 ^{m.}11 to ^{h.}9 ^{m.}46.Dec. +⁰50 to ¹0.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 168.	d.	Zone 174.	d.	Zone 168.	Zone 174.		
46	+ 5 51	+ 8.7	+ 5 55	+ 6.0	+ 0 55 59.7	61.0	- 1.3	
47	7 7	8.5	7 9	5.7	0 57 15.5	14.7	+ 0.8	
48	9 9	8.2	9 9	5.5	0 59 17.2	14.5	+ 2.7	
49	+ 9 32	+ 8.2	+ 9 38	+ 5.4	+ 0 59 40.2	43.4	- 3.2	

A.R. ^{h.} 8 ^{m.} 45 to ^{h.} 9 ^{m.} 45.Dec. +^o 40 to ^o 50.

Number of the Star.	Magnitude.	ZONE 170.					ZONE 171.					MEAN RIGHT ASCENSION. 1860.0		Difference.
		First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	First Wire.	Second Wire.	Mean red. to 1st Wire.	k.	Zone 170.	Zone 171.			
1	9	h. m. s. 8 45 19.1	s. 23.1	s. 19.10	s. -0.01	h. m. s. 8 45 19.3	s. 23.4	s. 19.35	s. -0.18	h. m. s. 8 45 19.09	s. 19.17	s. -0.12		
2	10-11	45 44.4	48.5	44.45	0.02	45 44.7	48.8	44.75	0.18	45 44.43	44.57	-0.14		
3	11-12	46 2.0	6.1	2.05	0.01	46 2.4	6.2	2.30	0.17	46 2.04	2.13	-0.09		
4	10-11	46 11.8	15.8	11.80	-0.01	46 12.4	16.2	12.30	0.17	46 11.79	12.13	-0.34		
5	9	46 47.3	51.3	47.30	0.00	46 47.6	51.6	47.60	0.16	46 47.30	47.44	-0.14		
6	9-10	46 52.7	56.8	52.75	0.00	46 52.8	57.1	52.95	0.17	46 52.75	52.78	-0.03		
7	10-11	47 6.4	10.3	6.35	0.00	47	10.4	6.40	0.17	47 6.35	6.23	+0.12		
8	9-10	47 41.4	45.4	41.40	0.00	47 41.6	45.6	41.60	0.17	47 41.40	41.23	+0.17		
9	9	47 51.6	....	51.60	+0.01	47 51.8	....	51.80	0.16	47 51.61	51.64	-0.03
10	9-10	47	55.8	51.80	0.01	47	56.1	52.10	0.16	47 51.81	51.94	-0.13		
11	10	49 5.1	9.3	5.20	0.01	49 5.4	9.0	5.20	0.15	49 5.21	5.05	+0.16		
12	11	49	14.8	10.80	0.01	49	15.1	11.10	0.15	49 10.81	10.95	-0.14		
13	..	.....	.....	.....	.....	49 18.8	22.3	18.55	0.15	49	18.40	....	
14	10-11	49 44.2	48.3	44.25	0.02	49 44.3	48.4	44.35	0.14	49 44.27	44.21	+0.06		
15	11-12	50 5.7	9.8	5.75	0.01	.....	.....	.....	.....	50 5.76	.....	....
16	11	50 26.8	30.9	26.85	0.02	50 27.0	31.0	27.00	0.14	50 26.87	26.86	+0.01		
17	9-10	50 41.7	45.8	41.75	0.02	50 41.8	45.9	41.85	0.14	50 41.77	41.71	+0.06		
18	11	50 56.0	60.1	56.05	0.02	50 56.2	60.2	56.20	0.14	50 56.07	56.06	+0.01		
19	11-12	51 39.0	43.0	39.00	0.02	51 39.2	43.2	39.20	0.13	51 39.02	39.07	-0.05		
20	12	52 5.1	9.0	5.05	0.02	52 5.2	9.1	5.15	0.13	52 5.07	5.02	+0.05		
21	11-12	52 6.1	9.7	5.90	0.02	52 6.3	10.0	6.15	0.13	52 5.92	6.02	-0.10		
22	10	52 18.3	22.4	18.35	0.03	52	22.5	18.50	0.13	52 18.38	18.37	+0.01		
23	10-11	.....	.....	.....	.....	52	32.7	28.70	0.13	52	28.83	....	
24	9	53 18.7	22.7	18.70	0.03	53 18.9	22.8	18.85	0.12	53 18.73	18.73	0.00		
25	11-12	53 50.8	54.7	50.75	0.03	53 50.8	54.9	50.85	0.12	53 50.78	50.73	+0.05		
26	....	.....	.....	.....	.....	54	9.4	5.40	0.12	54	5.28	....	
27	11-12	54 15.3	19.3	15.30	0.04	.....	.....	.....	.....	54 15.34	.....	....
28	9-10	54 28.5	32.5	28.50	0.04	54 28.7	32.6	28.65	0.12	54 28.54	28.53	+0.01		
29	10	54 39.2	43.0	39.10	0.04	54 39.4	43.3	39.35	0.12	54 39.14	39.23	-0.09		
30	10	55 8.0	11.9	7.95	0.04	55 8.1	12.1	8.10	0.11	55 7.99	7.99	0.00		
31	10-11	55 45.6	49.6	45.60	0.05	55 45.8	49.6	45.70	0.11	55 45.65	45.59	+0.06		
32	10-11	55 53.3	57.0	53.15	0.05	55 53.4	57.3	53.35	0.10	55 53.20	53.25	-0.05		
33	10-11	56 3.1	7.2	3.15	0.05	56 3.3	7.4	3.35	0.10	56 3.20	3.25	-0.05		
34	10-11	56 26.5	30.7	26.60	0.05	56 26.9	30.6	26.75	0.10	56 26.65	26.65	0.00		
35	11-12	56 51.2	55.1	51.15	0.05	.....	.....	.....	.....	56 51.20	.....	....
36	10-11	57 42.2	46.0	42.15	0.06	57 42.3	46.3	42.30	0.09	57 42.21	42.21	0.00		
37	10-11	59 0.8	4.8	0.80	0.07	59 0.9	4.8	0.85	0.08	59 0.87	0.77	+0.10		
38	9-10	59 35.3	39.3	35.30	0.07	59 35.6	39.4	35.50	0.08	59 35.37	35.42	-0.05		
39	10-11	8 59 58.7	62.3	58.50	0.07	8 59 58.6	62.7	58.65	0.08	8 59 58.57	58.57	0.00		
40	10	9 0 51.1	54.9	51.00	0.08	9 0 51.3	55.3	51.30	0.07	9 0 51.08	51.23	-0.15		
41	9-10	0 53.0	56.6	52.80	0.08	0 53.1	56.8	52.95	0.07	0 52.88	52.88	0.00		
42	10-11	1 8.7	12.9	8.80	0.08	1 8.8	12.9	8.85	0.07	1 8.88	8.78	+0.10		
43	11-12	2 19.7	....	19.70	0.09	2 20.1	24.1	20.10	0.06	2 19.79	20.04	-0.25	
44	11	2 22.6	26.4	22.50	0.09	2 22.5	26.5	22.50	0.06	2 22.59	22.44	+0.15		
45	9	9 2 28.2	....	28.20	+0.09	9 2 28.2	32.0	28.10	-0.06	9 2 28.29	28.04	+0.25	

A.R. ^{h.}8 ^{m.}45 to ^{h.}9 ^{m.}45.Dec. [°]+0 [']40 to [°]0 [']50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 170.	d.	Zone 171.	d.	Zone 170.	Zone 171.		
1	+ 2 36	- 7.8	+ 2 35	- 6.1	+ 0 42 28.2	28.9	- 0.7	
2	8 41	9.4	8 37	7.6	0 48 31.6	29.4	+ 2.2	
3	2 29	7.9	2 27	6.0	0 42 21.1	21.0	+ 0.1	
4	1 57	7.7	1 51	5.9	0 41 49.3	45.1	+ 4.2	
5	1 17	7.6	1 15	5.7	0 41 9.4	9.3	+ 0.1	
6	6 24	8.7	6 22	7.0	0 46 15.3	15.0	+ 0.3	
7	4 50	8.4	4 48	6.6	0 44 41.6	41.4	+ 1.2	
8	9 30	9.5	9 27	7.8	0 49 20.5	19.2	+ 1.3	
9	0 27	7.3	0 28	5.5	0 40 19.7	22.5	- 2.8	
10	1 29	7.6	1 29	5.8	0 41 21.4	23.2	- 1.8	
11	1 54	7.7	1 55	5.9	0 41 46.3	49.1	- 2.8	
12	2 48	7.9	3 38	6.3	0 42 40.1	31.7	...	
13	....	...	6 23	7.0	0 46	16.0	...	
14	1 16	7.5	1 17	5.7	0 41 8.5	11.3	- 2.8	
15	7 19	8.9	....	...	0 47 10.1	....	...
16	3 4	7.9	3 3	6.2	0 42 56.1	56.8	- 0.7	
17	6 13	8.6	6 11	6.9	0 46 4.4	4.1	+ 0.3	
18	5 18	8.4	5 13	6.7	0 45 9.6	6.3	+ 3.3	
19	4 50	8.3	4 50	6.6	0 46 41.7	43.4	- 1.7	
20	7 20	8.8	7 22	7.2	0 47 11.2	14.8	- 3.6	Double.
21	7 10	8.8	7 13	7.2	0 47 1.2	5.8	- 4.6	
22	5 27	8.4	5 22	6.7	0 45 18.6	15.3	+ 3.3	
23	5 54	8.5	5 48	6.8	0 45 45.5	41.2	+ 4.3	
24	2 12	7.6	2 12	5.9	0 42 4.4	6.1	- 1.7	
25	5 33	8.4	5 32	6.8	0 45 24.6	25.2	- 0.6	
26	....	...	4 33	6.6	0 44	26.4	...	
27	4 22	8.1	....	...	0 44 13.9	....	...
28	9 28	9.3	9 23	7.7	0 49 18.7	15.3	+ 3.4	
29	8 17	9.0	8 14	7.5	0 48 8.0	6.5	+ 1.5	
30	6 12	8.5	6 12	7.0	0 46 3.5	5.0	- 1.5	
31	5 42	8.4	5 39	6.8	0 45 33.6	32.2	+ 1.4	
32	5 26	8.3	4 26	6.5	0 45 17.7	19.5	- 1.8	
33	5 14	8.3	5 15	6.7	0 45 5.7	8.3	- 2.6	
34	8 26	9.0	8 19	7.5	0 48 17.0	....	...
35	7 1	8.7	....	...	0 46 52.3	....	...
36	7 21	8.7	7 22	7.2	0 47 12.3	14.8	- 2.5	
37	6 17	8.5	6 13	7.0	0 46 8.5	6.0	+ 2.5	
38	2 44	7.6	2 43	6.1	0 42 36.4	36.9	- 0.5	
39	5 43	8.3	5 40	6.8	0 45 34.7	33.2	+ 1.5	
40	7 8	8.6	7 4	7.1	0 46 59.4	56.9	+ 2.5	
41	2 17	7.5	2 19	6.0	0 42 9.5	13.0	- 3.5	
42	4 31	8.0	4 28	6.5	0 44 23.0	21.5	+ 1.5	
43	8 24	8.9	8 19	7.5	0 48 15.1	11.5	+ 3.6	Declination in zone 171 doubtful.
44	6 47	8.5	....	...	0 46 38.5	....	...
45	+ 7 30	- 8.7	+ 7 30	- 7.3	+ 0 47 21.3	22.7	- 1.4	

A.R. ^{h.}8 ^{m.}45 to ^{h.}9 ^{m.}45.Dec. [°]+0 [']40 to [°]0 [']50.

Number of the Star.	Magnitude.	ZONE 170.					ZONE 171.					MEAN RIGHT ASCENSION. 1860.0					Difference.		
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 170.		Zone 171.					
		h.	m.	s.	s.	s.	h.	m.	s.	s.	s.	h.	m.	s.	s.	s.			
46	8-9	9	2	31.5	35.4	31.45	+0.09	9	2	31.5	35.5	31.50	-0.06	9	2	31.54	31.44	+0.10	
47	9-10		3	28.4	32.2	28.30	0.10		3	28.4	32.2	28.30	0.05		3	28.40	28.25	+0.15	
48	10		3	41.5	45.7	41.60	0.10		3	41.7	45.8	41.75	0.05		3	41.70	41.70	0.00	
49	10-11		3	....	52.7	48.70	0.10		3	48.5	52.2	48.35	0.05		3	48.80	48.30	+0.50
50	11		4	20.2	24.3	20.25	0.10		4	20.3	24.3	20.30	0.05		4	20.35	20.25	+0.10	
51	10-11		4	46.1	49.8	45.95	0.11		....	....	....	....		4	46.06	....	....
52	10		6	7.8	11.6	7.70	0.11		6	8.1	12.0	8.05	0.04		6	7.81	8.01	-0.20	
53	10-11		6	16.2	20.1	16.15	0.11		6	16.5	20.5	16.50	0.04		6	16.26	16.46	-0.20	
54	9-10		6	59.7	63.8	59.75	0.11		6	59.9	63.8	59.85	0.04		6	59.86	59.81	+0.05	
55	9-10		7	20.1	....	20.10	0.12		7	20.4	24.3	20.35	0.04		7	20.22	20.31	-0.09
56	11	9	7	....	25.1	21.10	+0.12		....	....	....	....		7	21.22	....	....
57	10-11		....	....	....	....	....		7	50.8	54.9	50.85	0.03		7	....	50.82	....
58	11		....	....	....	....	....		8	13.9	17.8	13.85	0.02		8	....	13.83	....
59	11-12		....	....	....	....	....		8	51.3	55.4	51.35	0.02		8	....	51.33	....
60	11-12		....	....	....	....	....		10	4.8	8.8	4.80	0.02		10	....	4.78	....
61	10		....	....	....	....	....		10	20.6	24.6	20.60	0.01		10	....	20.59	....
62	10		....	....	....	....	....		10	....	28.8	24.80	0.01		10	....	24.79	....
63	10		....	....	....	....	....		11	21.2	....	21.20	0.01		11	....	21.19	....
64	10-9		....	....	....	....	....		11	23.2	27.1	23.15	0.01		11	....	23.14	....
65	9-10		....	....	....	....	....		11	50.1	54.0	50.05	-0.01		11	....	50.04	....
66	11-12		....	....	....	....	....		12	21.2	25.2	21.20	0.00		12	....	21.20	....
67	11		....	....	....	....	....		12	37.7	....	37.70	+0.01		12	....	37.71	....
68	11		....	....	....	....	....		12	....	57.8	53.80	0.00		12	....	53.80	....
69	10-11		....	....	....	....	....		13	3.4	7.7	3.55	0.00		13	....	3.55	....
70	10		....	....	....	....	....		13	10.4	14.5	10.45	0.01		13	....	10.46	....
71	7-8		....	....	....	....	....		13	25.7	29.6	25.65	0.01		13	....	25.66	....
72	10-11		....	....	....	....	....		13	48.3	52.3	48.30	0.01		13	....	48.31	....
73	9-10		....	....	....	....	....		13	49.4	53.4	49.40	0.01		13	....	49.41	....
74	10-11		....	....	....	....	....		14	53.5	57.5	53.50	0.02		14	....	53.52	....
75	10		....	....	....	....	....		15	5.2	9.0	5.10	0.02		15	....	5.12	....
76	11-12		....	....	....	....	....		15	29.9	33.9	29.90	0.03		15	....	29.93	....
77	11		....	....	....	....	....		16	43.8	47.8	43.80	0.03		16	....	43.83	....
78	10-11		....	....	....	....	....		17	0.7	4.6	0.65	0.04		17	....	0.69	....
79	10-11		....	....	....	....	....		17	8.5	12.5	8.50	0.03		17	....	8.53	....
80	9-10		....	....	....	....	....		17	17.6	21.5	17.55	0.03		17	....	17.58	....
81	11-12		....	....	....	....	....		17	56.0	60.2	56.10	0.04		17	....	56.14	....
82	10-11		....	....	....	....	....		17	56.8	60.9	56.85	0.04		17	....	56.89	....
83	11		....	....	....	....	....		18	33.6	....	....	0.04		18	....	33.64	....
84	11		....	....	....	....	....		18	37.3	41.3	37.30	0.05		18	....	37.35	....
85	..		....	....	....	....	....		18	49.3	53.4	49.35	0.04		18	....	49.39	....
86	11		....	....	....	....	....		19	10.4	14.2	10.30	0.05		19	....	10.35	....
87	10-11		....	....	....	....	....		20	34.9	38.9	34.90	0.05		20	....	34.95	....
88	10-11		....	....	....	....	....		20	41.2	45.1	41.15	0.06		20	....	41.21	....
89	10-11		....	....	....	....	....		21	17.0	20.9	16.95	0.06		21	....	17.01	....
90	10-11			9	22	2.8	6.8	2.80	+0.06	9	22	2.86

A.R. ^{h.} 8 ^{m.} 45 to ^{h.} 9 ^{m.} 45.Dec. +^o 40 to ^o 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 170.	d.	Zone 171.	d.	Zone 170.	Zone 171.		
46	+ 6 4	- 8.4	+ 6 1	- 6.9	+ 0 45 55.6	54.1	+ 1.5	
47	3 36	7.8	3 33	6.2	0 43 28.2	26.8	+ 1.4	
48	5 32	8.2	5 29	6.7	0 45 23.8	22.3	+ 1.5	
49	0 36	7.1	0 34	5.5	0 40 28.9	28.5	+ 0.4	
50	6 44	8.5	6 42	7.0	0 46 35.5	35.0	+ 0.5	
51	0 19	7.0	0 18	5.4	0 40 12.0	12.6	- 0.6	
52	4 50	8.1	4 49	6.5	0 44 41.9	42.5	- 0.6	
53	7 47	8.7	7 47	7.3	0 47 38.3	39.7	- 1.4	
54	10 11	9.3	10 9	7.9	0 50 1.7	1.1	+ 0.6	
55	9 19	9.1	9 17	7.6	0 49 9.9	9.4	+ 0.5	
56	2 31	7.5	....	...	0 42 23.5	....	...
57	2 30	7.5	2 29	5.9	0 42 22.5	23.1	- 0.6	
58	4 44	8.0	4 41	6.5	0 44 36.0	34.5	+ 1.5	
59	5 2	8.0	5 1	6.6	0 44 54.0	54.4	- 0.4	
60	7 8	8.5	7 7	7.1	0 46 59.5	59.9	- 0.4	
61	5 52	8.2	5 48	6.8	0 45 43.8	41.2	+ 2.6	
62	5 0	8.0	4 59	6.5	0 44 52.0	52.5	- 0.5	
63	4 44	8.0	4 43	6.5	0 44 36.0	36.5	- 0.5	
64	10 1	9.2	10 2	7.8	0 49 51.8	54.2	- 2.4	
65	9 27	9.0	9 19	7.6	0 49 18.0	11.4	+ 6.6	
66	7 28	8.6	7 26	7.2	0 47 19.4	18.8	+ 0.6	
67	0 22	7.0	0 21	5.4	0 40 15.0	15.6	- 0.6	
68	7 0	8.5	7 0	7.0	0 46 51.5	53.0	- 1.5	
69	8 22	8.8	....	...	0 48 13.2	....	...
70	6 38	8.4	6 36	7.0	0 46 29.6	29.0	+ 0.6	
71	6 32	8.4	6 29	6.9	0 46 23.6	22.1	+ 1.5	
72	2 18	7.4	2 16	5.9	0 42 10.6	10.1	+ 0.5	
73	9 27	9.0	9 40	7.7	0 49 18.0	32.3	- 14.3	Red.
74	7 13	8.5	7 9	7.1	0 47 4.5	1.9	+ 2.6	
75	7 48	8.6	7 46	7.2	0 47 39.4	38.8	+ 0.6	
76	3 24	7.6	3 21	6.1	0 43 16.4	14.9	+ 1.5	
77	4 49	7.9	4 47	6.5	0 44 41.1	40.5	+ 0.6	
78	2 13	7.3	3 9	6.1	0 43 5.7	2.9	+ 2.8	
79	4 29	7.9	4 29	6.4	0 44 21.1	22.6	- 1.5	
80	6 36	8.4	6 31	6.9	0 46 27.6	24.1	+ 3.5	
81	5 2	8.0	5 1	6.6	0 44 54.0	54.4	- 0.4	
82	2 32	7.4	2 32	6.0	0 42 24.6	26.0	- 1.4	
83	7 2	8.4	6 58	7.0	0 46 53.6	51.0	+ 2.6	
84	3 58	7.7	3 55	6.3	0 43 50.3	48.7	+ 1.6	
85	....	...	9 10	7.6	0 49	2.4	...	
86	3 12	7.5	3 12	6.1	0 43 4.5	5.9	- 1.4	
87	10 9	9.1	10 7	7.8	0 49 59.9	59.2	+ 0.7	
88	6 12	8.2	6 10	6.8	0 46 3.8	3.2	+ 0.6	
89	4 20	7.8	4 19	6.4	0 44 12.2	12.6	- 0.4	
90	+ 8 48	- 8.8	+ 8 43	- 7.5	+ 0 48 39.2	35.5	+ 3.7	

A.R. ^{h.}8 ^{m.}45 to ^{h.}9 ^{m.}45.Dec. ⁺0 ⁴⁰ to ⁰ 50.

Number of the Star.	Magnitude.	ZONE 170.					ZONE 171.					MEAN RIGHT ASCENSION. 1860.0					Difference.
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 170.		Zone 171.			
		h. m. s.	s.	s.	s.		h. m. s.	s.	s.	s.		h. m. s.	s.	s.			
91	9-10	.....	.....	.....	.....		9 22 29.9	33.9	29.90	+0.07		9 22	.....	29.97	.....	
92	10-11	.....	.....	.....	.....		23 38.0	42.2	38.10	0.08		23	.....	38.18	.....	
93	10-11	.....	.....	.....	.....		23 44.0	47.9	43.95	0.08		23	.....	44.03	.....	
94	11	.....	.....	.....	.....		23 59.5	.....	59.50	0.08		23	.....	59.58	.....	
95	11-12	.....	.....	.....	.....		24 22.6	26.5	22.55	0.08		24	.....	22.63	.....	
96	10	.....	.....	.....	.....		24 36.5	40.3	36.40	0.08		24	.....	36.48	.....	
97	10	9 24 45.8	49.7	45.75	+0.21		24 45.9	49.9	45.90	0.08		24 45.96	45.98	-0.02			
98	10	24 57.9	61.8	57.85	0.22		.....	.....	.....	.....		24 58.07	.....	.....	
99	11	26 10.6	14.7	10.65	0.22		26 10.9	14.8	10.85	0.09		26 10.87	10.94	-0.07			
100	11-12	27 8.3	12.3	8.30	0.23		27 8.3	12.3	8.30	0.10		27 8.53	8.40	+0.13			
101	9-10	27 24.7	28.8	24.75	0.23		27 25.0	28.8	24.90	0.10		27 24.98	25.00	-0.02			
102	10-11	27 42.6	46.6	42.60	0.23		27 42.8	46.8	42.80	0.10		27 42.83	42.90	-0.07			
103	8-9	28 38.0	41.9	37.95	0.23		28 38.2	42.2	38.20	0.10		28 38.18	38.30	-0.12			
104	9-10	29 0.7	4.7	0.70	0.24		29 1.1	4.9	1.00	0.11		29 0.94	1.11	-0.17			
105	10	30 12.9	16.8	12.85	0.24		30 12.9	17.1	13.00	0.11		30 13.09	13.11	-0.02			
106	10-11	31 19.5	23.3	19.40	0.25		31 19.9	23.5	19.70	0.12		31 19.65	19.82	-0.17			
107	11-12	31 33.7	37.7	33.70	0.25		31 34.0	38.2	34.10	0.12		31 33.95	34.22	-0.27			
108	10	31 58.8	62.8	58.80	0.25		31 58.9	63.0	58.95	0.13		31 59.05	59.08	-0.03			
109	10-11	32 12.8	16.9	12.85	0.26		32 13.0	17.0	13.00	0.13		32 13.11	13.13	-0.02			
110	11-12	32 33.6	37.5	33.55	0.26		32 33.7	37.7	33.70	0.13		32 33.81	33.83	-0.02			
111	10-11	33 36.6	40.5	36.55	0.27		33 36.5	40.7	36.60	0.14		33 36.82	36.74	+0.08			
112	10-12	33 42.2	46.1	42.15	0.27		33 42.4	46.3	42.35	0.14		33 42.42	42.49	-0.07			
113	10-11	35 16.9	20.6	16.75	0.27		35 16.8	20.6	16.70	0.15		35 17.02	16.85	+0.17			
114	.....	.....	.....	.....	.....		35 34.8	38.6	34.70	0.15		35	.....	34.85	.....	
115	10-12	37 31.9	35.7	31.80	0.29		37 32.0	36.1	32.05	0.17		37 32.09	32.22	-0.13			
116	10-11	37 37.3	41.3	37.30	0.29		37 37.6	41.5	37.55	0.16		37 37.59	37.71	-0.12			
117	10-11	38 26.2	30.1	26.15	0.30		38 26.5	30.4	26.45	0.18		38 26.45	26.63	-0.18			
118	9-10	38 28.4	30.3	28.35	0.30		38 28.5	32.6	28.55	0.18		38 28.65	28.73	-0.08			
119	10	38 49.4	53.4	49.40	0.30		38 49.6	53.8	49.70	.....		38 49.70	.....	.....	
120	10-11	39 10.3	14.3	10.30	0.30		39 10.5	14.5	10.50	0.18		39 10.60	10.68	-0.08			
121	10-11	40 37.2	41.2	37.20	0.31		40 37.4	41.5	37.45	0.19		40 37.51	37.64	-0.13			
122	9-10	40 56.6	60.7	56.65	0.31		40 56.8	61.0	56.90	0.19		40 56.96	57.09	-0.13			
123	10-11	42 3.0	7.0	3.00	0.32		42 3.1	7.1	3.10	0.20		42 3.32	3.30	+0.02			
124	10	42 9.3	13.2	9.25	0.31		42 9.6	13.7	9.65	0.20		42 9.56	9.85	-0.29			
125	7-8	43 2.7	6.7	2.70	0.32		43 3.0	7.1	3.05	0.20		43 3.02	3.25	-0.23			
126	9-11	43 41.6	45.6	41.60	0.33		43 41.7	45.6	41.65	0.21		43 41.93	41.86	+0.07			
127	9-11	44 1.3	5.2	1.25	0.33		44 1.5	5.5	1.50	0.21		44 1.58	1.71	-0.13			
128	10-11	44 14.0	18.1	14.05	0.33		44 14.4	18.2	14.30	0.22		44 14.38	14.52	-0.14			
129	11	44 30.5	34.5	30.50	0.33		44	.....	34.5	30.50	0.21	44 30.83	30.71	+0.12		
130	10-11	44 45.5	49.3	45.40	0.33		44 45.6	49.2	45.40	0.22		44 45.73	45.62	+0.11			
131	9-10	44 58.2	.....	58.20	0.33		44 58.4	.....	58.40	0.22		44 58.53	58.62	-0.09	
132	8	45 1.5	5.4	1.45	0.34		45 1.6	5.3	1.45	0.22		45 1.79	1.67	+0.12			
133	10	9 45 23.8	27.8	23.80	+0.34		9 45 24.0	27.9	23.95	+0.22		9 45 24.14	24.17	-0.03			

A.R. ^{h.}8 ^{m.}45 to ^{h.}9 ^{m.}45.Dec. +⁰40 to ⁰50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 170.	d.	Zone 171.	d.	Zone 170.	Zone 171.		
91	+ 5 6	- 7.8	+ 5 6	- 6.6	+ 0 44 58.2	58.4	- 0.2	
92	5 20	7.9	5 17	6.6	0 45 12.1	10.4	+ 1.7	
93	5 2	7.8	5 0	6.5	0 44 54.2	53.5	+ 0.7	
94	0 46	6.8	0 45	5.5	0 40 39.2	39.5	- 0.3	
95	....	...	1 29	5.5	0 41	23.5	...	
96	4 9	7.6	4 7	6.3	0 44 1.4	0.7	+ 0.7	
97	3 50	7.5	3 48	6.3	0 43 42.5	41.7	+ 0.8	
98	4 43	7.7	....	...	0 44 35.3	....	...
99	2 40	7.2	2 38	6.0	0 42 32.8	32.0	+ 0.8	
100	1 30	6.9	1 23	5.6	0 41 23.1	17.4	+ 5.7	
101	9 28	8.7	9 28	7.6	0 49 19.3	20.4	- 1.1	
102	4 58	7.7	4 58	6.5	0 44 50.3	51.5	- 1.2	
103	9 36	8.7	9 32	7.7	0 49 27.3	24.3	+ 3.0	
104	6 3	7.9	6 0	6.8	0 45 55.1	53.2	+ 1.9	
105	8 56	8.6	8 54	7.5	0 48 47.4	46.5	+ 0.9	
106	6 35	8.0	6 31	6.9	0 46 27.0	24.1	+ 2.9	
107	5 9	7.6	5 8	6.6	0 45 1.4	1.4	0.0	
108	7 58	8.3	7 55	7.3	0 47 49.7	47.7	+ 2.0	
109	2 26	7.0	2 26	5.6	0 42 19.0	20.4	- 1.4	
110	8 21	8.3	8 18	7.3	0 48 12.7	10.7	+ 2.0	
111	6 34	8.0	6 32	6.8	0 46 26.0	25.2	+ 0.8	
112	4 39	7.5	3 39	6.2	0 43 31.5	32.8	- 1.3	Zone (b) right.
113	7 16	8.1	7 12	7.0	0 47 7.9	5.0	+ 2.9	
114	....	...	5 32	6.6	0 45	25.4	...	
115	5 37	7.6	5 36	6.6	0 45 29.4	29.4	0.0	
116	9 46	8.6	9 40	7.6	0 49 37.4	32.4	+ 5.0	
117	4 38	7.4	4 36	6.4	0 44 30.6	29.6	+ 1.0	
118	0 14	6.4	0 10	5.3	0 40 7.6	4.7	+ 2.9	
119	1 16	6.6	....	...	0 41 9.4	....	...
120	3 45	7.2	2 46	5.9	0 42 37.8	40.1	- 2.3	Zone (b) right.
121	1 40	6.7	1 40	5.6	0 41 33.3	34.4	- 1.1	
122	10 6	8.6	10 6	7.7	0 49 57.4	58.3	- 0.9	
123	5 39	7.6	5 41	6.6	0 45 31.4	34.4	- 3.0	
124	9 54	8.6	9 52	7.7	0 49 45.4	44.3	+ 1.1	
125	5 23	7.5	5 21	6.5	0 45 15.5	14.5	+ 1.0	
126	0 52	6.5	0 49	5.4	0 40 45.5	43.6	+ 1.9	
127	4 41	7.3	4 38	6.4	0 44 33.7	31.6	+ 2.1	
128	0 57	6.5	0 57	5.4	0 40 50.5	51.6	- 1.1	
129	6 38	7.8	6 37	6.9	0 46 30.2	30.1	+ 0.1	
130	8 28	8.2	....	...	0 48 19.8	....	...
131	7 44	8.0	7 46	7.1	0 47 36.0	38.9	- 2.9	
132	3 59	7.2	4 0	6.2	0 43 51.8	53.8	- 2.0	
133	+ 6 18	- 7.7	+ 6 14	- 6.8	+ 0 46 10.3	7.2	+ 3.1	

A.R. ^{h.} 8 ^{m.} 45 to ^{h.} 9 ^{m.} 45.Dec. ^{h.} +0 ^{m.} 40 to ^{h.} 0 ^{m.} 50.

Number of the Star.	Magnitude.	ZONE 170.					ZONE 171.					MEAN RIGHT ASCENSION. 1860.0					Difference.	
		First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	First Wire.		Second Wire.	Mean red. to 1st Wire.	k.	Zone 170.		Zone 171.				
		h.	m. s.	s.	s.	s.	h.	m. s.	s.	s.	s.	h.	m. s.	s.	s.			
91	9-10	9	22	29.9	33.9	29.90	+0.07	9	22	29.97	
92	10-11	.....	.....	.....	.....	.....	23	38.0	42.2	38.10	0.08	23	.....	.....	38.18	.....	
93	10-11	.....	.....	.....	.....	.....	23	44.0	47.9	43.95	0.08	23	.....	.....	44.03	.....	
94	11	.....	.....	.....	.....	.....	23	59.5	.....	59.50	0.08	23	.....	.....	59.58	.....	
95	11-12	.....	.....	.....	.....	.....	24	22.6	26.5	22.55	0.08	24	.....	.....	22.63	.....	
96	10	.....	.....	.....	.....	.....	24	36.5	40.3	36.40	0.08	24	.....	.....	36.48	.....	
97	10	9	24	45.8	49.7	45.75	24	45.9	49.9	45.90	0.08	24	45.96	.....	45.98	-0.02	
98	10	24	57.9	61.8	57.85	0.22	.....	.....	.....	.....	.....	24	58.07	.....	.....	.....
99	11	26	10.6	14.7	10.65	0.22	26	10.9	14.8	10.85	0.09	26	10.87	.....	10.94	-0.07	
100	11-12	27	8.3	12.3	8.30	0.23	27	8.3	12.3	8.30	0.10	27	8.53	.....	8.40	+0.13	
101	9-10	27	24.7	28.8	24.75	0.23	27	25.0	28.8	24.90	0.10	27	24.98	.....	25.00	-0.02	
102	10-11	27	42.6	46.6	42.60	0.23	27	42.8	46.8	42.80	0.10	27	42.83	.....	42.90	-0.07	
103	8-9	28	38.0	41.9	37.95	0.23	28	38.2	42.2	38.20	0.10	28	38.18	.....	38.30	-0.12	
104	9-10	29	0.7	4.7	0.70	0.24	29	1.1	4.9	1.00	0.11	29	0.94	.....	1.11	-0.17	
105	10	30	12.9	16.8	12.85	0.24	30	12.9	17.1	13.00	0.11	30	13.09	.....	13.11	-0.02	
106	10-11	31	19.5	23.3	19.40	0.25	31	19.9	23.5	19.70	0.12	31	19.65	.....	19.82	-0.17	
107	11-12	31	33.7	37.7	33.70	0.25	31	34.0	38.2	34.10	0.12	31	33.95	.....	34.22	-0.27	
108	10	31	58.8	62.8	58.80	0.25	31	58.9	63.0	58.95	0.13	31	59.05	.....	59.08	-0.03	
109	10-11	32	12.8	16.9	12.85	0.26	32	13.0	17.0	13.00	0.13	32	13.11	.....	13.13	-0.02	
110	11-12	32	33.6	37.5	33.55	0.26	32	33.7	37.7	33.70	0.13	32	33.81	.....	33.83	-0.02	
111	10-11	33	36.6	40.5	36.55	0.27	33	36.5	40.7	36.60	0.14	33	36.82	.....	36.74	+0.08	
112	10-12	33	42.2	46.1	42.15	0.27	33	42.4	46.3	42.35	0.14	33	42.42	.....	42.49	-0.07	
113	10-11	35	16.9	20.6	16.75	0.27	35	16.8	20.6	16.70	0.15	35	17.02	.....	16.85	+0.17	
114	.....	.....	.....	.....	.....	.....	35	34.8	38.6	34.70	0.15	35	.....	.....	34.85	.....	
115	10-12	37	31.9	35.7	31.80	0.29	37	32.0	36.1	32.05	0.17	37	32.09	.....	32.22	-0.13	
116	10-11	37	37.3	41.3	37.30	0.29	37	37.6	41.5	37.55	0.16	37	37.59	.....	37.71	-0.12	
117	10-11	38	26.2	30.1	26.15	0.30	38	26.5	30.4	26.45	0.18	38	26.45	.....	26.63	-0.18	
118	9-10	38	28.4	30.3	28.35	0.30	38	28.5	32.6	28.55	0.18	38	28.65	.....	28.73	-0.08	
119	10	38	49.4	53.4	49.40	0.30	38	49.6	53.8	49.70	.....	38	49.70	.....	.....	.....
120	10-11	39	10.3	14.3	10.30	0.30	39	10.5	14.5	10.50	0.18	39	10.60	.....	10.68	-0.08	
121	10-11	40	37.2	41.2	37.20	0.31	40	37.4	41.5	37.45	0.19	40	37.51	.....	37.64	-0.13	
122	9-10	40	56.6	60.7	56.65	0.31	40	56.8	61.0	56.90	0.19	40	56.96	.....	57.09	-0.13	
123	10-11	42	3.0	7.0	3.00	0.32	42	3.1	7.1	3.10	0.20	42	3.32	.....	3.30	+0.02	
124	10	42	9.3	13.2	9.25	0.31	42	9.6	13.7	9.65	0.20	42	9.56	.....	9.85	-0.29	
125	7-8	43	2.7	6.7	2.70	0.32	43	3.0	7.1	3.05	0.20	43	3.02	.....	3.25	-0.23	
126	9-11	43	41.6	45.6	41.60	0.33	43	41.7	45.6	41.65	0.21	43	41.93	.....	41.86	+0.07	
127	9-11	44	1.3	5.2	1.25	0.33	44	1.5	5.5	1.50	0.21	44	1.58	.....	1.71	-0.13	
128	10-11	44	14.0	18.1	14.05	0.33	44	14.4	18.2	14.30	0.22	44	14.38	.....	14.52	-0.14	
129	11	44	30.5	34.5	30.50	0.33	44	.....	34.5	30.50	0.21	44	30.83	.....	30.71	+0.12
130	10-11	44	45.5	49.3	45.40	0.33	44	45.6	49.2	45.40	0.22	44	45.73	.....	45.62	+0.11	
131	9-10	44	58.2	.....	58.20	0.33	44	58.4	.....	58.40	0.22	44	58.53	.....	58.62	-0.09
132	8	45	1.5	5.4	1.45	0.34	45	1.6	5.3	1.45	0.22	45	1.79	.....	1.67	+0.12	
133	10	9	45	23.8	27.8	23.80	+0.34	9	45	24.0	27.9	23.95	+0.22	9	45	24.14	24.17	-0.03

A.R. ^{h.} 8 ^{m.} 45 to ^{h.} 9 ^{m.} 45.Dec. +⁰ 40 to ⁰ 50.

Number.	MICROMETER READINGS.				MEAN DECLINATION. 1860.0		Difference.	REMARKS.
	Zone 170.	d.	Zone 171.	d.	Zone 170.	Zone 171.		
91	+ 5 6	- 7.8	+ 5 5	- 6.6	+ 0 44 58.2	58.4	- 0.2	
92	5 20	7.9	5 17	6.6	0 45 12.1	10.4	+ 1.7	
93	5 2	7.8	5 0	6.5	0 44 54.2	53.5	+ 0.7	
94	0 46	6.8	0 45	5.5	0 40 39.2	39.5	- 0.3	
95	....	...	1 29	5.5	0 41	23.5	...	
96	4 9	7.6	4 7	6.3	0 44 1.4	0.7	+ 0.7	
97	3 50	7.5	3 48	6.3	0 43 42.5	41.7	+ 0.8	
98	4 43	7.7	....	...	0 44 35.3	....	...
99	2 40	7.2	2 38	6.0	0 42 32.8	32.0	+ 0.8	
100	1 30	6.9	1 23	5.6	0 41 23.1	17.4	+ 5.7	
101	9 28	8.7	9 28	7.6	0 49 19.3	20.4	- 1.1	
102	4 58	7.7	4 58	6.5	0 44 50.3	51.5	- 1.2	
103	9 36	8.7	9 32	7.7	0 49 27.3	24.3	+ 3.0	
104	6 3	7.9	6 0	6.8	0 45 55.1	53.2	+ 1.9	
105	8 56	8.6	8 54	7.5	0 48 47.4	46.5	+ 0.9	
106	6 35	8.0	6 31	6.9	0 46 27.0	24.1	+ 2.9	
107	5 9	7.6	5 8	6.6	0 45 1.4	1.4	0.0	
108	7 58	8.3	7 55	7.3	0 47 49.7	47.7	+ 2.0	
109	2 26	7.0	2 26	5.6	0 42 19.0	20.4	- 1.4	
110	8 21	8.3	8 18	7.3	0 48 12.7	10.7	+ 2.0	
111	6 34	8.0	6 32	6.8	0 46 26.0	25.2	+ 0.8	
112	4 39	7.5	3 39	6.2	0 43 31.5	32.8	- 1.3	Zone (b) right.
113	7 16	8.1	7 12	7.0	0 47 7.9	5.0	+ 2.9	
114	....	...	5 32	6.6	0 45	25.4	...	
115	5 37	7.6	5 36	6.6	0 45 29.4	29.4	0.0	
116	9 46	8.6	9 40	7.6	0 49 37.4	32.4	+ 5.0	
117	4 38	7.4	4 36	6.4	0 44 30.6	29.6	+ 1.0	
118	0 14	6.4	0 10	5.3	0 40 7.6	4.7	+ 2.9	
119	1 16	6.6	....	...	0 41 9.4	....	...
120	3 45	7.2	2 46	5.9	0 42 37.8	40.1	- 2.3	Zone (b) right.
121	1 40	6.7	1 40	5.6	0 41 33.3	34.4	- 1.1	
122	10 6	8.6	10 6	7.7	0 49 57.4	58.3	- 0.9	
123	5 39	7.6	5 41	6.6	0 45 31.4	34.4	- 3.0	
124	9 54	8.6	9 52	7.7	0 49 45.4	44.3	+ 1.1	
125	5 23	7.5	5 21	6.5	0 45 15.5	14.5	+ 1.0	
126	0 52	6.5	0 49	5.4	0 40 45.5	43.6	+ 1.9	
127	4 41	7.3	4 38	6.4	0 44 33.7	31.6	+ 2.1	
128	0 57	6.5	0 57	5.4	0 40 50.5	51.6	- 1.1	
129	6 38	7.8	6 37	6.9	0 46 30.2	30.1	+ 0.1	
130	8 28	8.2	....	...	0 48 19.8	....	...
131	7 44	8.0	7 46	7.1	0 47 36.0	38.9	- 2.9	
132	3 59	7.2	4 0	6.2	0 43 51.8	53.8	- 2.0	
133	+ 6 18	- 7.7	+ 6 14	- 6.8	+ 0 46 10.3	7.2	+ 3.1	

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